

CASSETTE RECEIVER

KRC-464D/L

SERVICE MANUAL

KENWOOD

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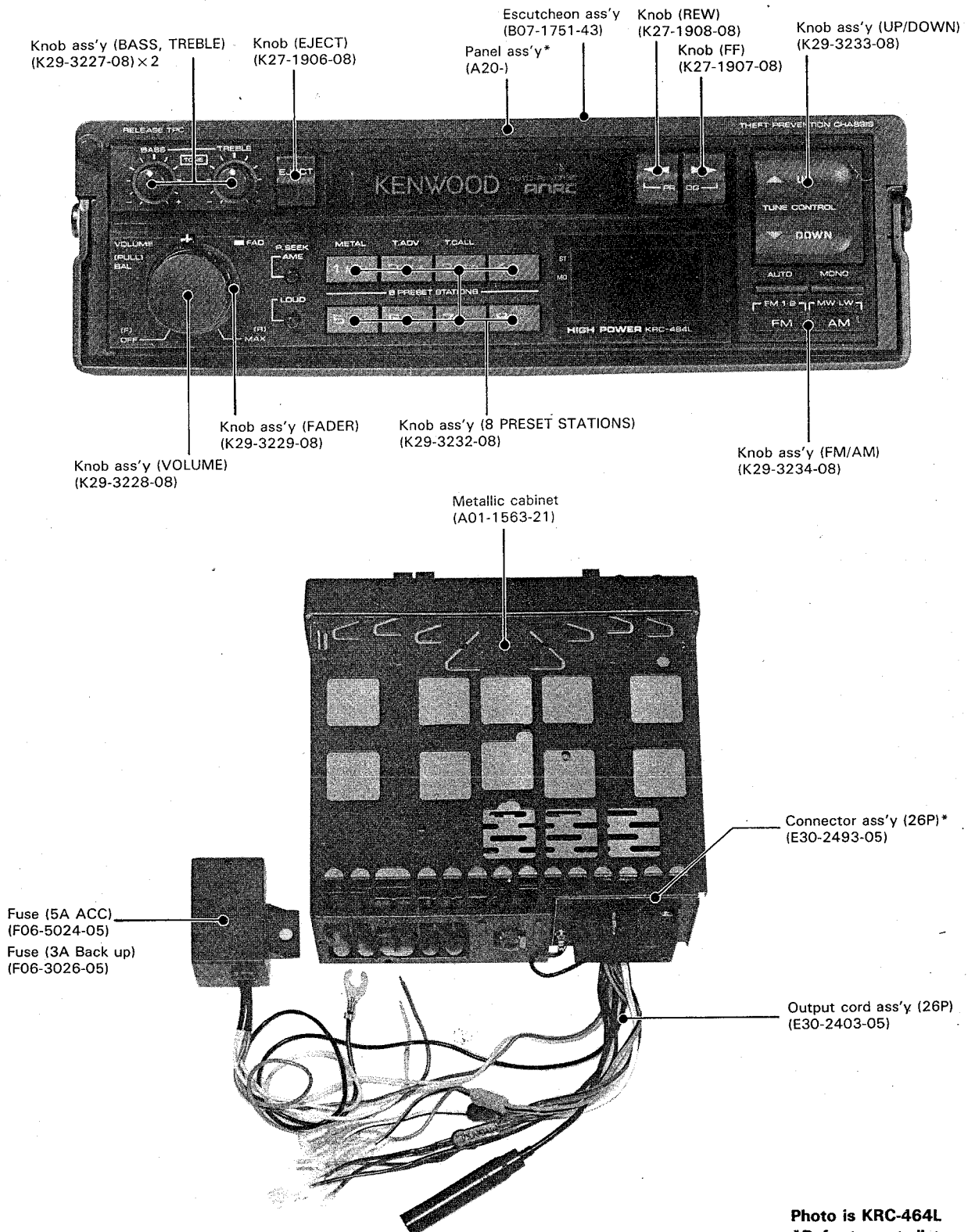


Photo is KRC-464L

*Refer to parts list on page 67.

KRC-464D/L

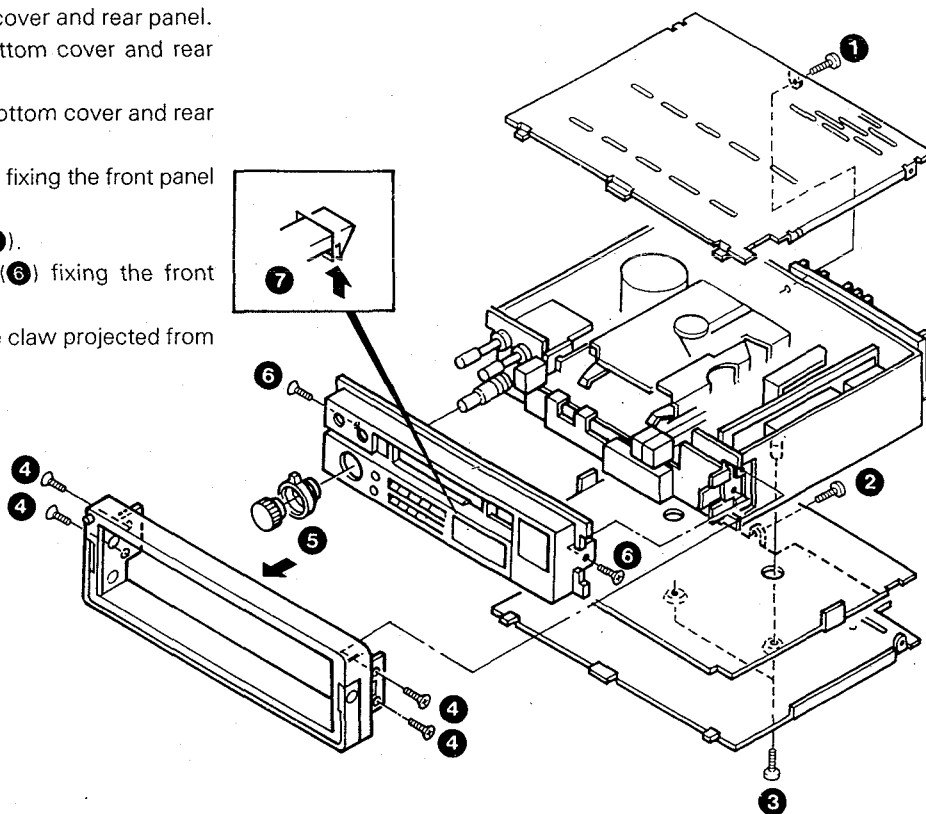
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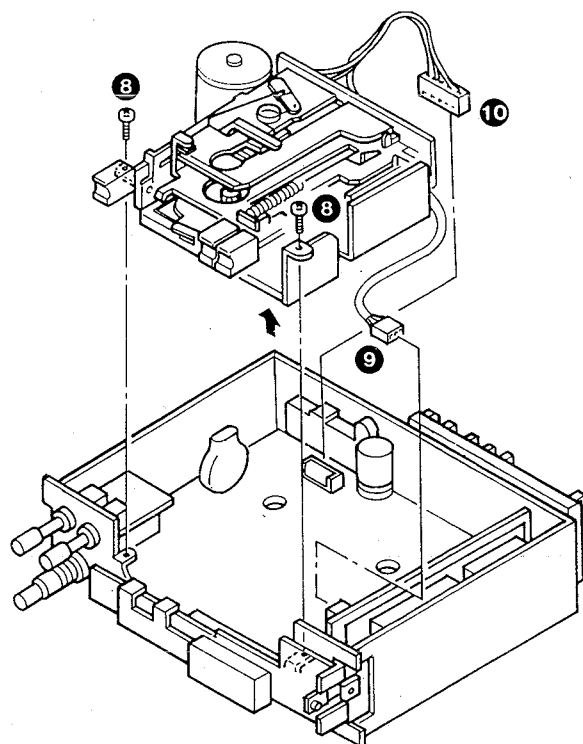
DISASSEMBLY FOR REPAIR

1. Remove the screw (1) fixing the top cover and rear panel.
2. Remove the screw (2) fixing the bottom cover and rear panel.
3. Remove the 2 screws (3) fixing the bottom cover and rear panel.
4. Remove the 4 countersunk screws (4) fixing the front panel frame.
5. Remove the Volume control knob (5).
6. Remove the 2 countersunk screws (6) fixing the front panel.
7. Remove the front panel by pushing the claw projected from it.

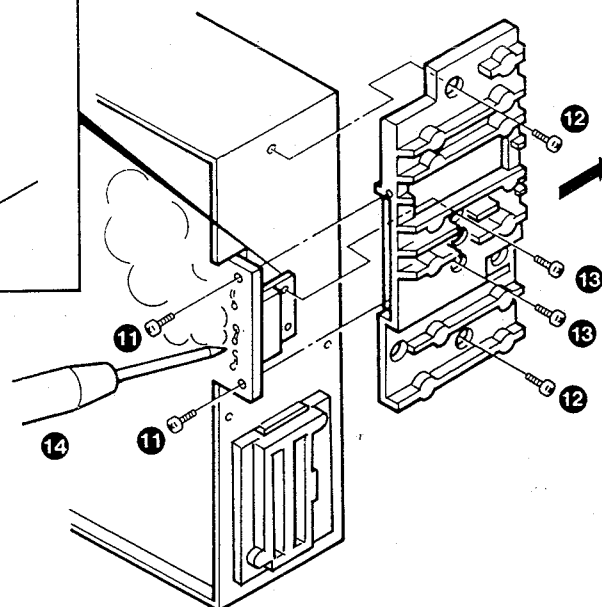
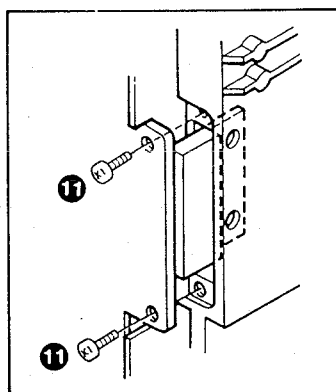


DISASSEMBLY FOR REPAIR

8. Remove the 2 screws (8) fixing the Mechanism Ass'y.
9. Disconnect the connector (9) inserted into the Mechanism Ass'y and E301 of FM IF/NC... UNIT.
10. Disconnect the connector (10) inserted into the Mechanism Ass'y and MAIN UNIT, and take out the Mechanism Ass'y in the direction of the arrow.



11. Stand the set as shown in the illustration. Then, remove the 2 screws (11) fixing CONTROL UNIT and heat sink.
12. Remove the 2 screws (12) fixing the heat sink.
13. Remove the 2 screws (13) fixing the heat sink, and take out the heat sink in the direction of the arrow. When attaching the heat sink, insert the IC into the heat sink slot.
14. Remove solder from the foil side of MAIN UNIT (A/2) (14), and replace the IC.



CIRCUIT DESCRIPTION

Description of Components

MAIN UNIT

Component		Use/Function	Operation/Condition/Compatibility
Ref. No.	Parts No.		
IC501	AN7171K	Audio Power Amp.	2-ch, 13 W×2/4 ohms.
IC502	M51551P	Radio/Tape AF select	Dual 2-mode electronic switch.
IC503	NJM4558S	OP Amp.	For tone control buffer.
IC801	μPD1719G-550-12	Microprocessor	System controller, PLL and LED driver.
IC802	TC4081BP	CMOS AND 4 Lines	Used for FM ST/TAPE/FF/DIR matrix input.
IC803	TC4069UBP	CMOS Inverter 6 Lines	MUTE, LOUD, ADV and SD signal inversion from high to low.
IC901	TDA1579	SDK processing	Traffic information (SK and DK)
IC902	BA4558	OP Amp.	For BK signal filter.
Q251	2SC2021	Switching (MW/LW select)	Turns ON in MW mode: $V_{B-E}=0.6\text{ V}$, $V_{C-E}=2.2\text{ V}$. In LW mode: $V_{C-E}=0\text{ V}$. KRC-464L only.
Q252	DTC114YF	Switching (for MW STOP SENS set up)	$V_{C-E}=3.5\text{ V}$ during an MW seek operation, $V_{C-E}=0\text{ V}$ in STOP mode.
Q311	2SA937	Switching (Mute)	Cuts the mute signal in T-C mode.
Q401	2SB891	AVR 9 V	Power supply for the radio, $V_E=8.8\text{ V}$.
Q402	2SC2021	AVR 9 V	
Q403	2SA874	Switching (AM power supply)	Turns OFF in MW/LW mode, $V_E=8.3\text{ V}$. Turns OFF in FM mode, $V_E=0\text{ V}$.
Q404	2SA874	Switching (FM power supply)	Turns ON in FM mode, $V_E=8.3\text{ V}$. Turns OFF in MW/LW mode.
Q405	2SC2021	Switching (AM power supply)	Turns ON in AM mode, $V_{B-E}=0.6\text{ V}$, $V_{C-E}=0\text{ V}$.
Q406	2SC2021	Switching (FM power supply)	Turns ON in FM mode, $V_{B-E}=0.6\text{ V}$, $V_{C-E}=0\text{ V}$.
Q407	2SD1225M	Switching (for the indicator lamp)	Turns ON when power is switched ON, $V_{B-E}=0.6\text{ V}$ (The indicator lamp lights.).
Q501	2SD1469	Switching (Mute)	For audio muting in a preset or seek operation.
Q502	2SJ103	Switching (loudness)	Turns OFF when the L-ch LOUDNESS is ON.
Q503	DTC114YS	Switching (power IC mute)	IC501 does not operate when the backup cord is not connected.
Q504	DTC114YS	Switching (power IC mute)	ON when the power switch is turned ON.
Q551	2SD1469	Switching (Mute)	For audio muting in a preset or seek operation.
Q552	2SJ103	Switching (loudness)	Turns OFF when the R-ch LOUDNESS is ON.
Q801	2SC2021	AVR 5 V (for the microprocessor)	Power supply for the microprocessor and CMOS ICs, $V_E=5.6\text{ V}$.
Q802	DTA114YF	Switching (microprocessor CE pin)	$V_C=5\text{ V}$ when power is turned ON, 0 V when power is OFF.
Q803	2SC2021	Switching (microprocessor CE pin)	
Q804	2SA937	Switching (SK)	Turns OFF during SK reception. KRC-464D only.
Q805	2SA937	Switching (DK interruption)	Turns OFF on DK interruption, microprocessor. KRC-464D only.
Q806	DTC114YF	Switching (Stop signal inverter)	For STOP signal inversion from high to low.
Q807	2SK246Y	FM LPF (low pass filter)	FM tuning voltage set.
Q808	2SK246Y	MW/LW LPF (low pass filter)	MW/LW tuning voltage set.
Q809	2SC2021	FM LPF (low pass filter)	FM tuning voltage set, $V_E=1.0\sim 7.5\text{ V}$. (fmin. ~ fmax.)
Q810	2SC2021	MW/LW LPF (low pass filter)	MW/LW tuning voltage set, $V_E=1.0\sim 8.0\text{ V}$. (fmin. ~ fmax.)
Q901	DTC114YF	Switching (SK)	Turns OFF during SK reception. KRC-464D only.
Q902	2SD1469	Switching (DK min. output)	Switching for DK VR pull-up. Turns OFF when the DK signal is preset. Turns ON when DK signal is not preset. KRC-464D only.
Q903	2SD1469	Switching (DK min. output)	Switching for DK VR pull-up. Turns OFF when the DK signal is preset. Turns ON when DK signal is not preset. KRC-464D only.

CIRCUIT DESCRIPTION

FM IF/NC/MPX, TAPE EQ/T.ADV. UNIT

Component		Use/Function	Operation/Condition/Compatibility
Ref. No.	Parts No.		
E151	STK3404	FM Noise canceller and MPX	Noise canceller, FM multiplexer, anti-mu.
IC101	LA1140	FM IF Amp, Det	
IC301	BA3406AL	Tape EQ Amp.	Head amp. with equalizer and metal tape select circuit.
IC701	AN6262N	T.ADV. (Tape advance)	
Q101	2SC2410	FM IF Amp.	
Q102	2SJ103	Switching (AGC)	
Q103	2SJ103	Switching (AGC)	
Q104	2SC2021	Switching (ANRC)	
Q105	2SC2021	Switching (SD)	
Q106	2SC2021	Switching (SK stop)	
Q151	DTC144EF	Switching (FM ST indicator)	Turns OFF when a stereo broadcast is received. For ST indicator signal inversion from high to low.
Q301	2SC2021	AVR 9 V	
Q701	DTC114YF	Switching (T.ADV.)	Turns OFF when the TA (Tape) switch is ON, $V_B = 0$ V.
Q702	2SB822	Switching (Solenoid drive)	For the SK output DC inversion.

KRC-464D/L

CIRCUIT DESCRIPTION

Microprocessor μ PD1719G-550

(MAIN UNIT: IC801)

The μ PD1719G-550 includes the prescaler which operates up to 150 MHz, PLL frequency synthesizer and LCD driver, developed for the FM/MW/LW radio to be used in U.S., Europe, Middle East and Japan.

1. Features

- (1) 4-bit microcomputer for digital tuning
- (2) Prescaler (two modulus prescaler: 150 MHz max.) and PLL circuits incorporated
- (3) LCD driver (1/2 duty, 1/2 bias, frame frequency: 100 Hz, 56 segment max.)
- (4) 5 V $\pm$ 10% single power supply
- (5) Low power consumption CMOS
- (6) Easy to backup data memory (RAM) (with CE pin)
- (7) FM1/FM2/MW/LW 4-band tuner (by initial set diode switch)

- (8) Auto/manual up/down tuning possible (sawtooth wave sweeping)
- (9) Preset memory of up to 10 stations for each band (10 stations for MW + LW combination) (by initial set diode switch)
- (10) Preset scanning, auto memory function
- (11) Direct station select (by initial set diode)
- (12) Compatible with SDK (by initial set diode)
- (13) Accommodate to optional output for radio, such as NR, Load and OP
- (14) Tuner call possible
- (15) Accommodate to optional output for tape such as NR, Load, Metal and Dolby-B/C type, T. ADV.
- (16) Accommodate to clock function (by initial set diode switch)

2. Outline of Functions

(a) Band plan

Area	Receiving Band	Receiving Frequency Range	Channel Spacing		Reference Frequency	Intermediate Frequency	Local
			Auto	Manual			
U.S.A.	FM	87.9 ~ 107.9 MHz	200 kHz	←	25 kHz	10.7 MHz	Upper
	MW	530 ~ 1620 kHz	10 kHz	←	10 kHz	450 kHz	Upper
Europe	FM	87.5 ~ 108.0 MHz	50 kHz	25 kHz	25 kHz	10.7 MHz	Upper
	MW	531 ~ 1611 kHz	9 kHz	←	9 kHz	450 kHz	Upper
	LW	153 ~ 281 kHz	9 kHz	1 kHz	1 kHz	450 kHz	Upper
Middle East	FM	87.5 ~ 108.0 MHz	50 kHz	25 kHz	25 kHz	10.7 MHz	Upper
	MW	531 ~ 1611 kHz	9 kHz	←	9 kHz	450 kHz	Upper
Japan	FM	76.1 ~ 89.9 MHz	100 kHz	←	25 kHz	10.7 MHz	Lower
	MW	522 ~ 1629 kHz	9 kHz	←	9 kHz	450 kHz	Upper

(b) Initial Setting

(1) Preset memory initialization:

Area	Receiving Band	1	2	3	4	5	6	7	8	9	0
U.S.A.	FM	87.9 MHz	←	←	←	←	←	←	←	←	←
	MW	530 kHz	←	←	←	←	←	←	←	←	←
Europe	FM	87.5 MHz	←	←	←	←	←	←	←	←	←
	MW	531 kHz	←	←	←	←	←	←	←	←	←
	LW		←	←	←	←	←	←	←	←	←
Middle East	FM	87.5 MHz	←	←	←	←	←	←	←	←	←
	MW	531 kHz	←	←	←	←	←	←	←	←	←
Japan	FM	76.1 MHz	←	←	←	←	←	←	←	←	←
	MW	522 kHz	←	←	←	←	←	←	←	←	←

- The lowest frequency is initially stored for all preset memories as shown in the table above. But no frequency is stored in memory for LW band

in Europe version.

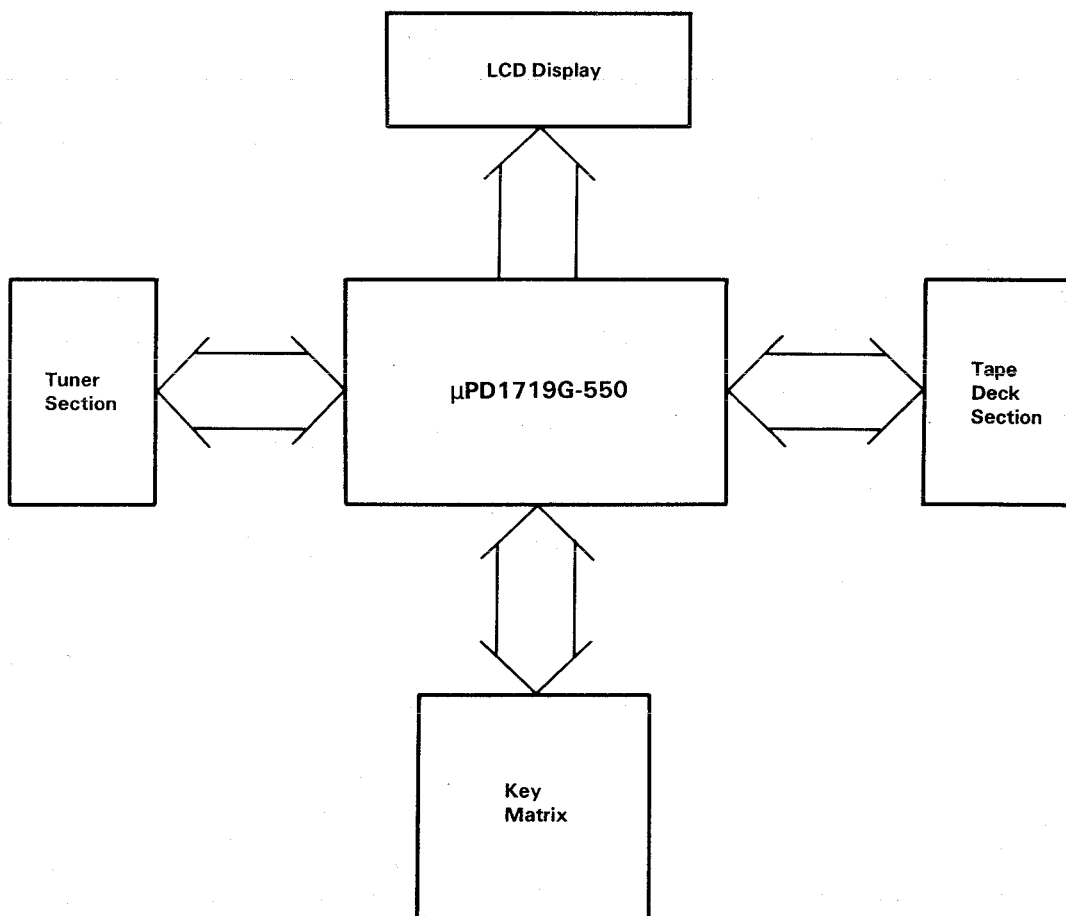
- Also for FM2 band, the lowest frequency is stored in memory for all preset memories.

CIRCUIT DESCRIPTION

(2) Other initialization:

Frequency	Lowest Frequency	op	off	MTL	off
Channel Indication	Blank	NR	Off (for both Radio and Tape)	T-ADV	off
Receiving Band	FM (FM1)	SDK	off	T-call	off
Power	off	Auto	By diode switch	Clock	12:00
Loudness	on	Dolby	Off (for both B and C)		

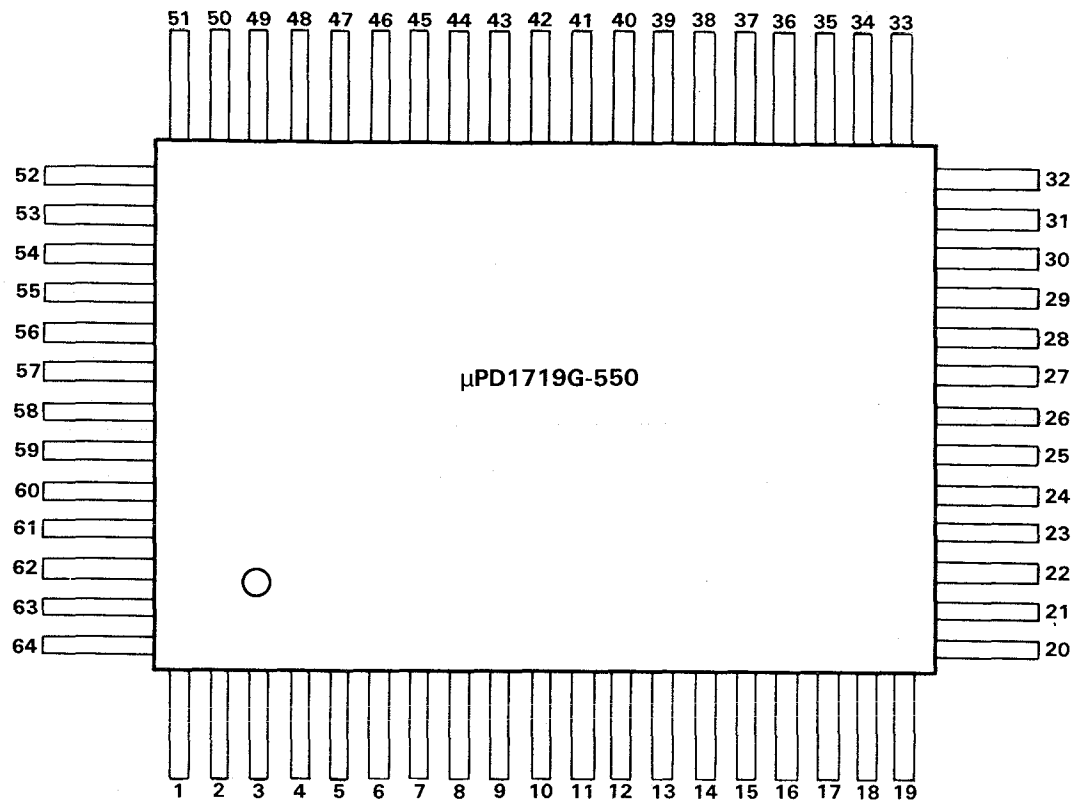
3. Block Diagram



KRC-464D/L

CIRCUIT DESCRIPTION

(a) Pin Connection Diagram (Top View)



Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name
1	NC	17	PA1/FMIF	33	LCD22	49	LCD6/KS6
2	E01	18	PA2/SI	34	LCD21	50	LCD5/KS5
3	E02	19	PA3/ $\overline{\text{SCK}}$	35	LCD20	51	LCD4/KS4
4	GND	20	PBO/SO	36	LCD19	52	LCD3/KS3
5	VCOL (AM)	21	PB1	37	LCD18	53	LCD2/KS2
6	VCOH (FM)	22	PB2	38	LCD17	54	LCD1/KS1
7	CE	23	PB3	39	LCD16	55	LCD0/KS0
8	GND	24	XO	40	LCD15/KS15	56	COM1
9	PD1	25	XI	41	LCD14/KS14	57	COM2
10	PD2	26	VDD	42	LCD13/KS13	58	VDD*
11	PD3	27	CGP	43	LCD12/KS12	59	K3
12	PC0	28	LCD27/PL3	44	LCD11/KS11	60	K2
13	PC1	29	LCD26/PL2	45	LCD10/KS10	61	K1
14	PC2	30	LCD25/PL1	46	LCD9/KS9	62	K0
15	PC3	31	LCD24/PL0	47	LCD8/KS8	63	AD
16	PA0/AMIF	32	LCD23	48	LCD7/KS7	64	INT

(* Internally connected to pin 26)
(NC: No Connection)

CIRCUIT DESCRIPTION

(b) Pin Description

Pin No.	Symbol	Pin Name	Functions	Remarks
1	NC	No Connection	Although this pin is not connected to the internal chip, it can be used for connection of Open, GND or V _{DD} , etc.	
2 3	EO ₁ EO ₂	Error Outputs	Error output pin for PLL. When the divided local oscillator frequency is higher than the reference frequency, high level signal is output, and when it is lower than the reference frequency, low level signal is output. When they match with each other, they are floated. This output signal is applied to the external low pass filter (LPF), then applied to the varactor diode. Since the same waveforms are output from EO1 and EO2, either of these pins can be used.	Three-state CMOS
4, 8	V _{DD}	Power Supply	Power supply pin for device. This supplies 5 V $\pm$ 10% voltage when the device is in operation. To maintain the internal data memory (RAM) (when the clock stops), the voltage can be lowered to 2.5 V.	
5	AM	AM Local Oscillation Signal Input	Inputs the local oscillator output from 0.6 to 15 MHz (0.3 V _{p-p} min). This pin operates when the direct dividing system is selected. Since the AC amp is incorporated, it is necessary to cut.	Input
6	FM	FM Local Oscillation Signal Input	Inputs the local oscillator output from 15 to 150 MHz (0.5 V _{p-p} min). This pin operates when the pulse swallow system is selected. Since the AC amp is incorporated, it is necessary to cut the AC current before input.	Input
7	CE	Chip Enable	Device signal input pin. When operating the device normally, this pin is turned to high. When the device is not used, it is turned to low. While this pin is low level, PLL is inhibited. However, the signal less than 134 μ s cannot be accepted. While the clock is not used, when this pin is turned to low, the internal clock generator and CPU stop operation so that the memory is maintained with low-power consumption status (less than 10 μ A). When the CE pin is turned high from low, the device is reset and the program restarts from the address 0.	Input
9 ~ 11	PD3 ~ PD1	Port D	3-bit output port. For use in this specifications, refer to the item 3-2 (c) I/O port.	CMOS push-pull
12 ~ 15	PC3 ~ PC0	Port C	4-bit I/O port. When the output command is executed for port C, this port functions as output port, and when the input command is executed, it functions as input port. For use in this specifications, refer to the item 3-2 (c) I/O port.	CMOS push-pull
16 17 18 19	PA0 (AM-IF) PA1 (FM-IF) PA2 (SI) PA3 (SCK)	Port A	4-bit I/O port. Input/output function can be specified for each bit to this port. These ports can be used as serial interface. At this time, PA3 pin operates as $\overline{\text{SCK}}$ (shift clock) pin, and PA2 pin operates as SI (serial input) pin. When PA3 pin is used as $\overline{\text{SCK}}$, it is necessary to pull-up PA3 pin using resistor. And PA0, PA1 pins function as the frequency measurement pins. PA0 operates as AM-IF while PA1 operates as FM-IF. The higher limit input frequency is 1 MHz for AM-IF pin, and 12 MHz for FM-IF pin. When the AM-IF pin is selected, the input signal is applied directly to the IF counter. However, when the FM-IF pin is selected, the input signal is applied to the 1/2 divider before inputting to the IF counter. When the reset signal is applied to the device (V _{DD} goes high from low, or CE goes high from low), or when the internal clock is stopped, the input mode is engaged. For use in this specifications, refer to item 3-2 (c) I/O port.	CMOS push-pull
20 ~ 23	PB3 (SO) ~ PB0	Port B	4-bit output port. PB0 pin can be used as SO (serial output) pin for serial interfacing. For use in this specifications, refer to item 3-2 (c) I/O port.	CMOS push-pull
24	XO		Crystal oscillator connect pin. Connect the crystal having 4.5 MHz oscillating frequency to these pins.	CMOS input
25	XI		When adjusting the oscillating frequency (4.5 MHz), perform while observing XO pin output.	
26, 58	GND	Ground	Ground (GND) pin for device.	

CIRCUIT DESCRIPTION

Pin No.	Symbol	Pin Name	Functions	Remarks
27	CGP	Clock Generator Port	CGP (Clock Generator Port), or 1-bit output port (PG2). When this pin is used as CGP, either of two modes can be selected depending on the program between VDP (Variable Duty Pulse) function with which the 2.69 kHz pulses are output continuously and the pulse can be varied in 64 steps, and SG (Signal Generator) function with which 180 kHz and 18 kHz reference frequencies are divided into 64 steps (50% duty) are output respectively. When the reset signal is applied to the device (V _{DD} goes high from low, or CE goes high from low), or when the internal clock is stopped, the CGP pin goes low.	CMOS push-pull
28 ~ 55	LCD27 ~ LCD0	LCD Segment Outputs	Segment signal output pins for LCD panel. Up to 56 dots indications can be displayed by the matrix of COM1 and COM2. When these pins are not used as LCD segment signal output pins, pins from LCD27/PL3 to LCD24/PL0 can be used as 4-bit output port. For use in this specifications, refer to item 3-2 (c) I/O port. The display data and the key source signals are output from the LCD15/KS15 to LCD0/KS0 pins in time division system. When the power is turned ON (V _{DD} goes high from low), or when the internal clock is stopped, the low level signal (display off mode) is output automatically.	CMOS push-pull
56 57	COM1 COM2	LCD Common Outputs	Common signal output pin to LCD panel. Up to 56 dots indications are possible with the matrix by LCD0 to 27. Three values of GND, 1/2 V _{p-p} and V _{DD} are output with an interval of 5 ms in synchronization of 100 Hz. When the potential difference of $\pm V_{DD}$ is generated between LCD 0—27 and these pins, the corresponding segments light up. When the power is turned ON (V _{DD} goes high from low), or when the internal clock is stopped, the low level signal (display off mode) is output automatically.	CMOS push-pull
59 ~ 62	K3 ~ K0	Key Return Signal Outputs	4-bit input port. Normally used for key matrix inputs. For use in this specifications, refer to item 3-2 (c) I/O port.	Input
63	AD	Analog Digital input	A/D (analog to digital) converter input pin. As an A/D converter, the 6-bit successive approximation A/D converter is incorporated with the program. The reference voltage for A/D conversion is V _{DD} (5 V $\pm 10\%$). For use in this specifications, refer to item 3-2 (c) I/O port.	Input
64	INT	Interrupt	Interruption request signal input pin. The interruption request signal is issued at the rising edge of the signal applied to this pin. For use in this specifications, refer to item 3-2 (c) I/O port.	Input

(c) I/O Port

Port	Allocation	I/O	Functions
PA0	Power	O	Power supply control output port. Power ON $\rightarrow$ High Power OFF $\rightarrow$ Low
PA1	Mute	O	Audio muting output port. Used to cancel the shock noise when the PLL lock is detuned, or the pop noise when switching between Tape and Radio. Mute ON $\rightarrow$ Low Mute OFF $\rightarrow$ High
PA2	Tape/Radio	O	Audio switching output port for Tape and Radio. In radio mode $\rightarrow$ Low In tape mode $\rightarrow$ High However, while in the tape mode, when the radio sound is output such as "tuner call" or "DK interruption", it goes low.
PA3	Loud	O	Loudness control output port Loudness ON $\rightarrow$ High Loudness OFF $\rightarrow$ Low

CIRCUIT DESCRIPTION

Port	Allocation	I/O	Functions																
PB0	Dolby	O	- When NR = 0: This functions as Dolby NR control output port together with B/C (PB1) in tape mode. <table><tr><th>Dolby</th><th>B/C</th><th>Function</th></tr><tr><td>0</td><td>0</td><td>off</td></tr><tr><td>0</td><td>1</td><td>—</td></tr><tr><td>1</td><td>0</td><td>Dolby-B</td></tr><tr><td>1</td><td>1</td><td>Dolby-C</td></tr></table> - When NR = 1: This functions as Noise Reduction control output port. Noise Reduction ON → High Noise Reduction OFF → Low	Dolby	B/C	Function	0	0	off	0	1	—	1	0	Dolby-B	1	1	Dolby-C	
Dolby	B/C	Function																	
0	0	off																	
0	1	—																	
1	0	Dolby-B																	
1	1	Dolby-C																	
PB1	B/C	O	- When NR = 0: This functions as Dolby NR control output port together with DOLBY (PB0) in tape mode. <table><tr><th>Dolby</th><th>B/C</th><th>Function</th></tr><tr><td>0</td><td>0</td><td>off</td></tr><tr><td>0</td><td>1</td><td>—</td></tr><tr><td>1</td><td>0</td><td>Dolby-B</td></tr><tr><td>1</td><td>1</td><td>Dolby-C</td></tr></table> - When NR = 1: Not used.	Dolby	B/C	Function	0	0	off	0	1	—	1	0	Dolby-B	1	1	Dolby-C	
Dolby	B/C	Function																	
0	0	off																	
0	1	—																	
1	0	Dolby-B																	
1	1	Dolby-C																	
PB2	MTL	O	Metal tape function control output port. Metal ON → High Metal OFF → Low																
PB3	T-ADV	O	Tape Advance function control output port. Tape Advance ON → High Tape Advance OFF → Low																
PC0	SDK	O	SDK mode select output port. SDK mode ON → High SDK mode OFF → Low																
PC1	OP	O	Optional functions control output port. Option ON → High Option OFF → Low																
PC2	DK OUT	O	SDK mode DK interruption function control output port. During DK interruption → High Other than above → Low																
PC3	AGC OUT	O	AGC control output port. Outputs high level signal when setting the value N for PLL. When setting the value N for PLL → High Other than above → Low																
PD1 PD2 PD3	FM MW LW	O O O	Tuner band select output port. <table><tr><th>Receiving Band \ Port</th><th>FM</th><th>MW</th><th>LW</th></tr><tr><td>FM band</td><td>H</td><td>L</td><td>L</td></tr><tr><td>MW band</td><td>L</td><td>H</td><td>L</td></tr><tr><td>LW band</td><td>L</td><td>L</td><td>H</td></tr></table>	Receiving Band \ Port	FM	MW	LW	FM band	H	L	L	MW band	L	H	L	LW band	L	L	H
Receiving Band \ Port	FM	MW	LW																
FM band	H	L	L																
MW band	L	H	L																
LW band	L	L	H																
PL0 ~ PL3			Not used. Used for LCD segment output signal.																
K0 ~ K3		I	Used as the key matrix input.																
AD	SM	I	Signal meter lighting voltage detection input port.																
INT	SD	I	Station detector input port for tuning. Station is detected → Low Other than above → High																
CGP	BZ		Beep tone pulse output port. Outputs the 2.7273 kHz pulses for 60 ms.																

CIRCUIT DESCRIPTION

(d) Key Structure

(1) Key Matrix

	K3 (59)	K2 (60)	K1 (61)	K0 (62)
KS0 (55)	NR	Loud	Auto	Power
KS1 (54)	SDK	Band	FM	AM
KS2 (53)	OP(R)	OP(FM)	SA	P. Scan
KS3 (52)	CLK	Seek	Down	UP
KS4 (51)	1 Metal	2 T-ADV	3 T-Call	4 Dolby-B
KS5 (50)	5 Dolby-C	6	7	8
KS6 (49)	9	0	Direct	
KS8 (47)	Tape	Dir	FF/Rew	
KS9 (46)	DK	SK-Start	SK-Stop	ST
KS10 (45)	Band A ▽	Band B ▽		
KS11 (44)	POWSCT ▽	FM2 Band ▽	SDKSCT ▽	T-ADVSCT ▽
KS12 (43)	CLKSCT ▽	AUTOSCT ▽	Dolby ▽	NRSCT ▽



Momentary key



Alternate switch



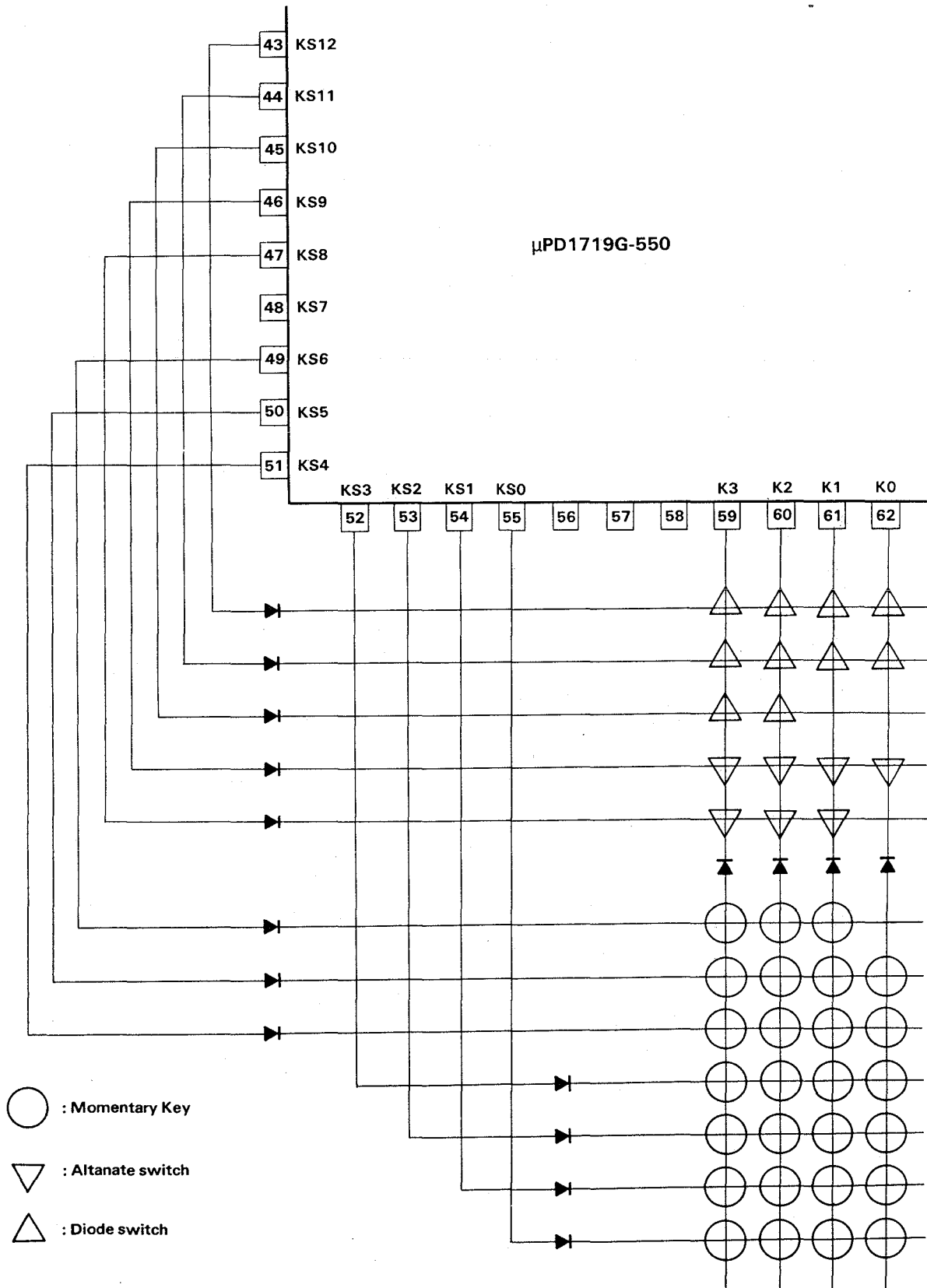
Momentary key
(dual function)



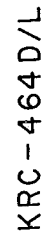
Initial set diode switch

CIRCUIT DESCRIPTION

(2) Key Matrix Connection and Type of Switch

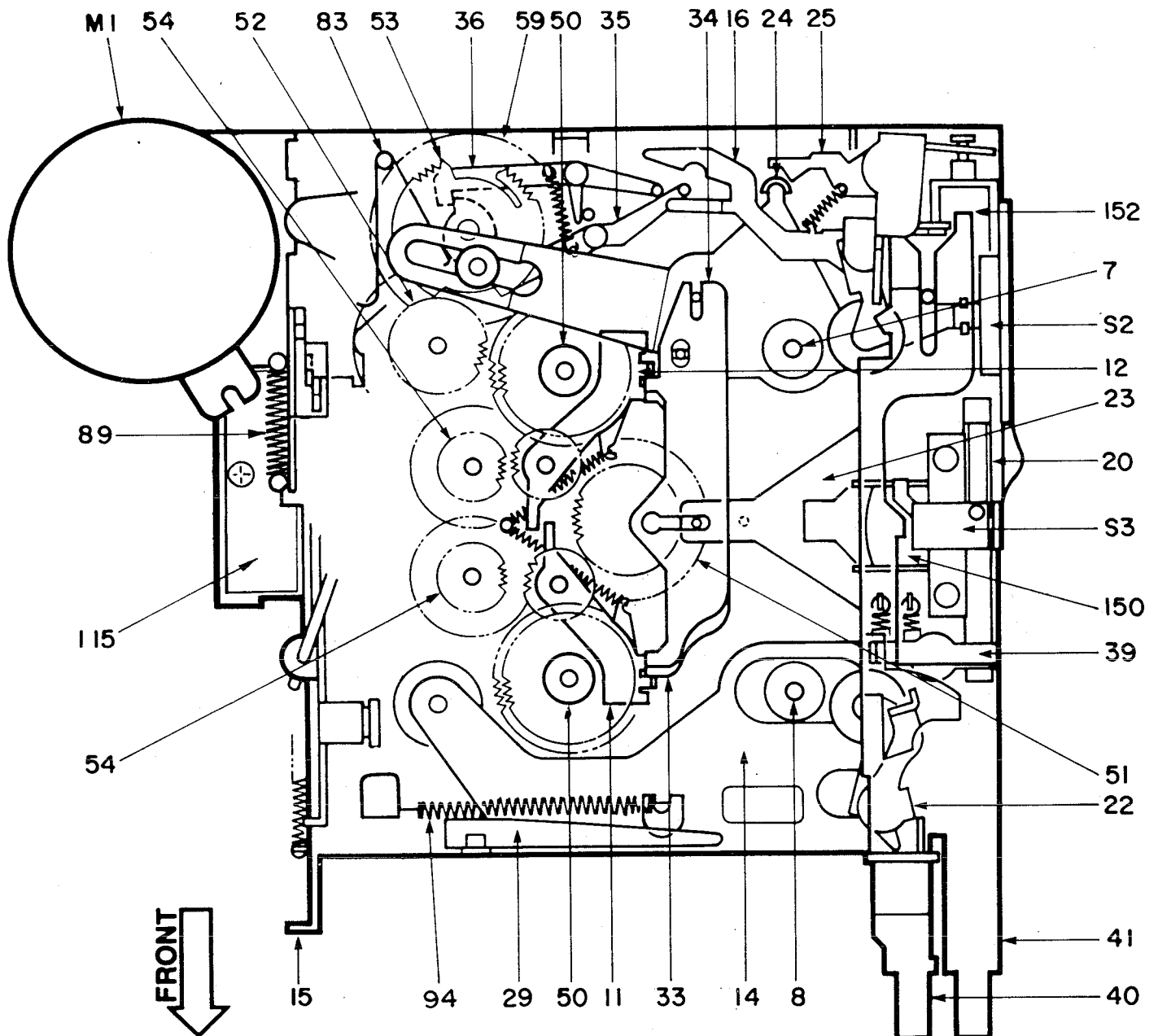


BLOCK LEVEL DIAGRAM



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MECHANISM OPERATION DESCRIPTION



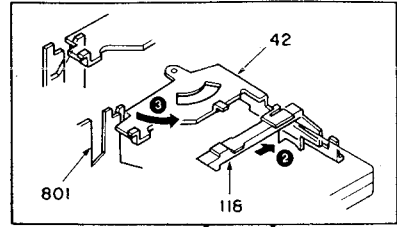
Parts Description (Front perspective view)

KRC-464D/L

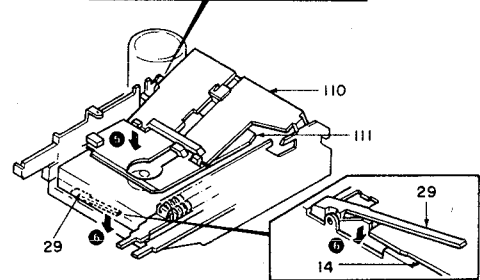
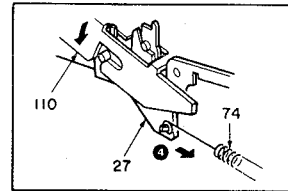
MECHANISM OPERATION DESCRIPTION

LOADING

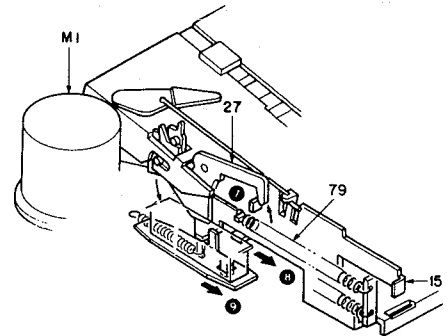
1. Insert a cassette tape (1).
2. The cassette guide (118) pushes the lever (reverse [42]) (2).
3. The lever (reverse [42]) turns in the direction of the arrow and releases the lock of the holder (action plate [110]) (3).



4. Through the lock release of the lever (reverse [42]), the arm (action [27]) is pulled by the tension spring (74), which turns the holder (action plate [110]). The holder (action plate) descends (4).
5. Through the descent of the holder (action plate [110]), the holder (cassette case [111]) also descends (5).
6. As the holder (cassette case [111]) descends, the cassette tape pushes the lever (lock plate [29]). The lever (lock plate [29]) then releases the lock of the lever assembly (head plate [14]) (6).



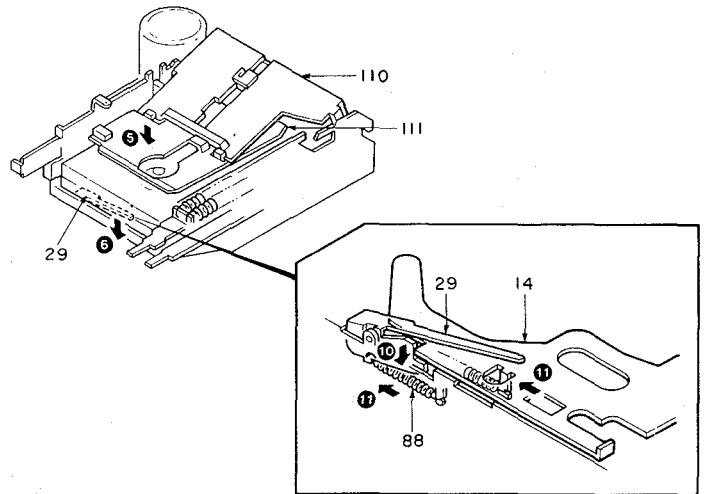
7. As the arm (action [27]) turns, the lock of the lever assembly (eject [15]) is released (7).
8. The lever assembly (eject [15]) is pulled by the tension spring (79) and moves forward (8).
9. Through the movement of the lever assembly (eject [15]), the lever (49) also moves forward and turns on the slide switch S1. As the slide switch S1 is turned on, electricity is supplied to the motor assembly (M1) (9).



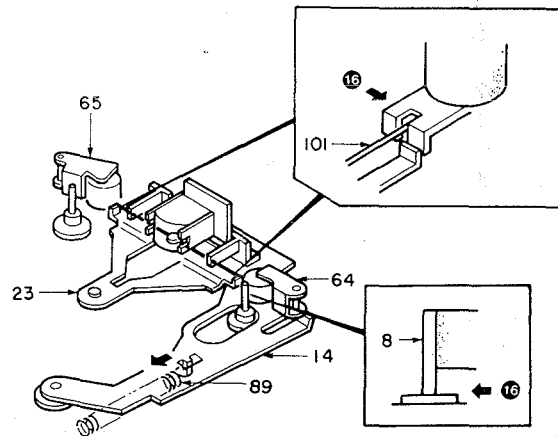
KRC-464D/L

MECHANISM OPERATION DESCRIPTION

10. As the holder (cassette case [110]) descends, the cassette tape pushes the lever (lock plate [29]). The lever (lock plate [29]) then releases the lock of the lever assembly (head plate [14]) (10).
11. The lever assembly (head plate [14]) is pulled by the tension spring (89) and moves forward (11).



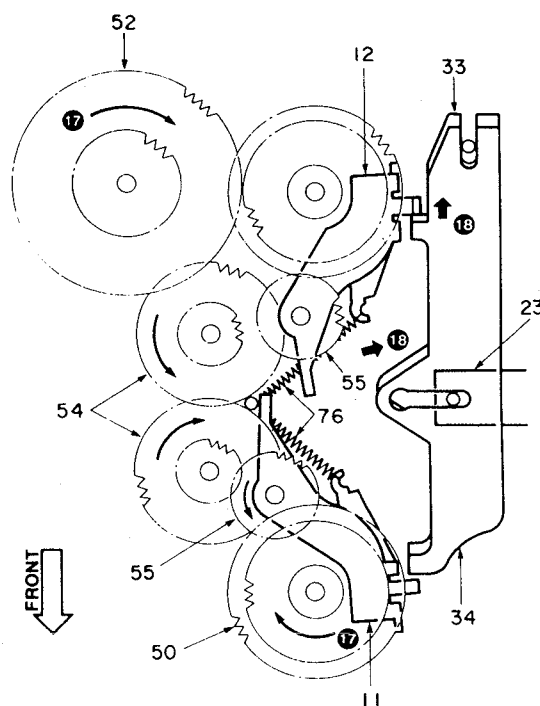
12. Through the forward movement of the lever assembly (head plate [14]), pinch roller assemblies (R & F [64, 65]) make close contact with the shaft of the flywheel assembly (R[8]) through the formed wire (101) (16).



KRC-464D/L

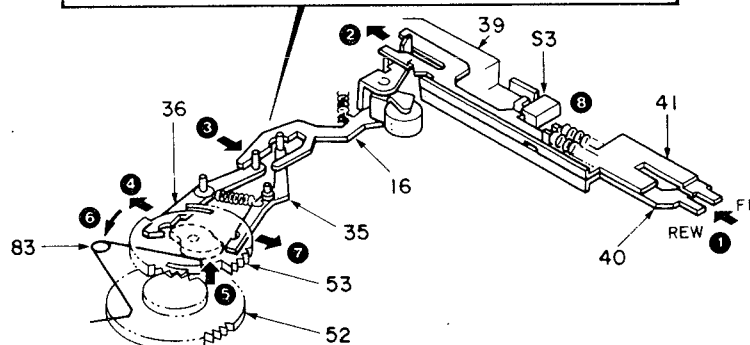
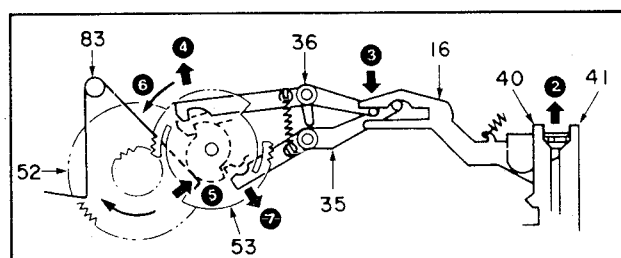
MECHANISM OPERATION DESCRIPTION

13. The rotation is transmitted from each gear (52 → 54 → 55) to the gear assembly (reel base [50]) of the take-up side (17).
14. The gear assembly (reel base [50]) of the pay-out side is pushed toward the slider assembly (12) by the lever (33) and the gear (take-up [55]) is disengaged in the direction of the arrow (18).



PROGRAM

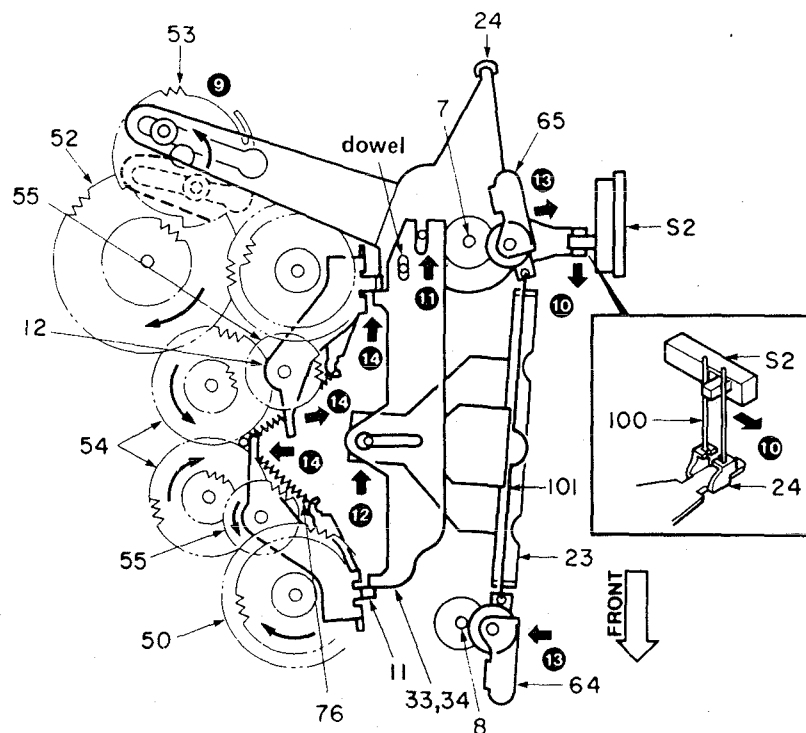
1. Push both levers (FR [40] and FR [41]) by hand at the same time (1).
2. The calking of the lever assembly (reverse [16]) is sandwiched between the lever (FR [40]) and the lever (FR [41]), and pushes the lever assembly (reverse [16]) (2).
3. The lever assembly (reverse [16]) moves the arm (36) (3).
4. The arm (36) releases the lock of the gear assembly (switch [53]) (4).
5. The torsion coil spring (83) pushes the cam of the gear assembly (switch [53]) in the direction of the arrow (5).
6. The gear assembly (switch [53]) is pushed by the torsion coil spring (83), turns in the direction of the arrow, engages in the gear assembly (take-up [52]), and makes a half-turn (6).
7. The arm (35) functions as a stop temporarily at this time; the stop is released when the reverse lever returns (7).
8. The muting during the program is done by the leaf switch S3 mounted on the lever assembly (side panel [39]) (8).



MECHANISM OPERATION DESCRIPTION

FROM FWD PLAY TO RVS PLAY

9. the gear assembly (switch [53]) moves the arm (24) from the FWD PLAY position to the RVS PLAY position through the movement of its boss (9).
10. Through the movement of the arm (24), the slide switch S2 is switched by the formed wire spring (100) (10).
11. The arm (24) moves the lever (33). The lever on it (34) moves at the same time through the dowel on the lever (33) (11).
12. The lever (33) moves the arm (23) (12).
13. Through the formed wire (PR [101]) of the arm (23), the pinchroller assembly (R [64]) contacts the shaft of the flywheel assembly (R [8]), and the pinch roller assembly (F [65]) is detached from the shaft of the flywheel assembly (F [7]) (13).
14. Through the movement of the lever (33) in the direction of the arrow (11), the gear (take-up [55]) attached to the slider assembly (11) is pushed by the lever (33), and the rotation is removed from the gear (take-up [54]).
Through the movement of the lever (33) in the direction of the arrow (11), the gear (take-up [55]) attached to the slider assembly (11) is pulled by the tension spring (76), engages with the gear (take-up [54]), and the rotation is transmitted from the gear assembly (52→54→55→50) (14).

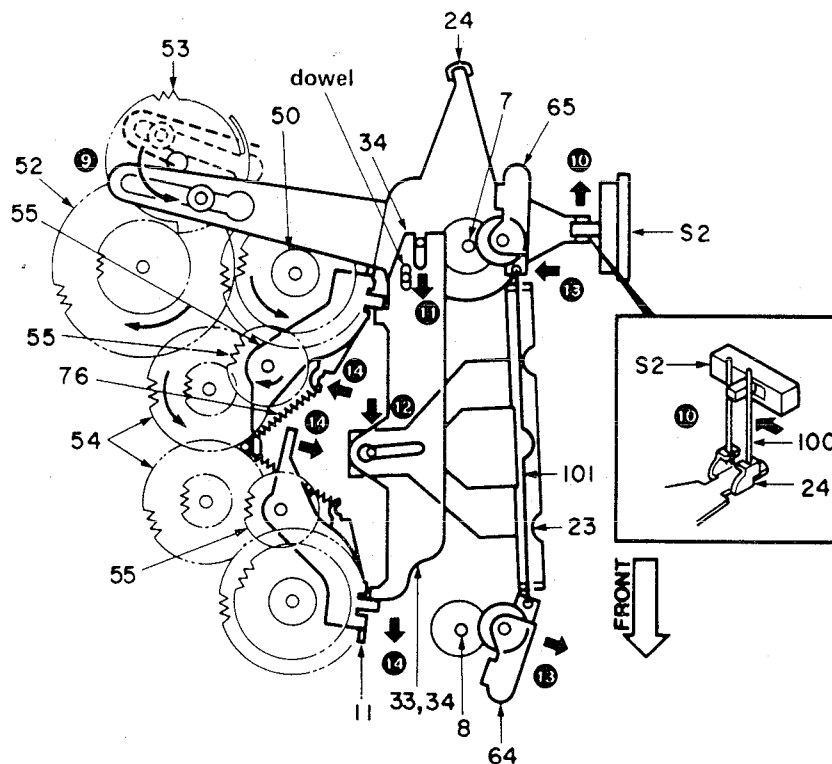


KRC-464D/L

MECHANISM OPERATION DESCRIPTION

FROM RVS PLAY TO FWD PLAY

9. The gear assembly (switch [53]) moves the arm (24) from the FWD PLAY position to the RVS PLAY position through the movement of its boss (9).
10. Through the movement of the arm (24), the slide switch S2 is switched by the formed wire spring (100) (10).
11. The arm (24) moves the lever (34). The lever under it (33) moves at the same time through the dowel or the lever (34) (11).
12. The lever (34) moves the arm (23) (12).
13. Through the formed wire spring (PR [101]) of the arm (23), the pinchroller assembly (F [65]) contacts the shaft of the flywheel assembly (F [7]), and the pinch roller assembly (R [64]) is detached from the shaft of the flywheel assembly (R [8]) (13).
14. Through the movement of the lever (33) in the direction of the arrow (11), the gear (take up [55]) attached to the slider assembly (11) is pushed by the lever (33), and the rotation is removed from the gear (take-up [54]).
Through the movement of the lever (33) in the direction of the arrow (12), the gear (take-up [55]) attached to the slider assembly (11) is pulled by the tension spring (76), engages with the gear (take up [54]), and the rotation is transmitted from the gear assembly (52→54→55→50) (14).

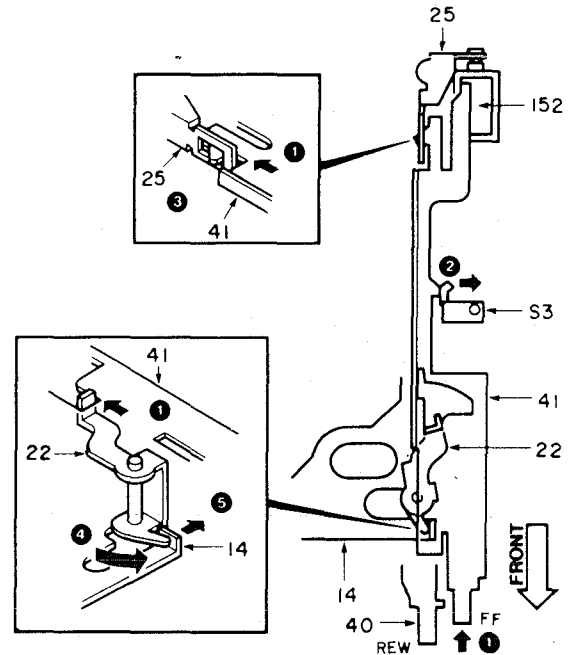


KRC-464D/L

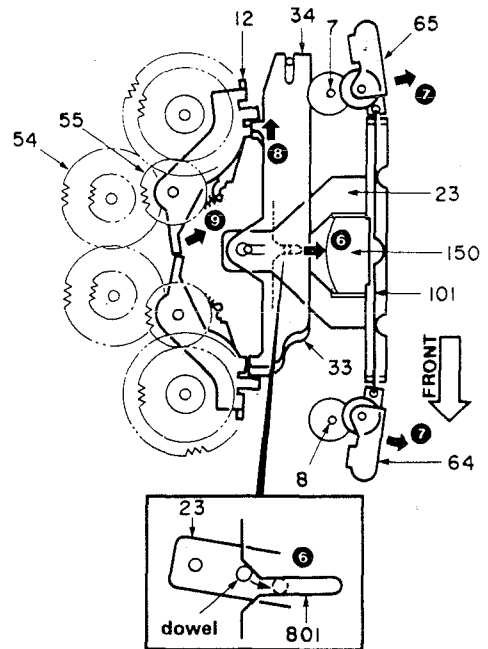
MECHANISM OPERATION DESCRIPTION

FF

1. Push the lever (FR [41]) (1).
2. Pushing the lever (FR [41]) makes the leaf switch S3 turn on and muting is applied (2).
3. The lever (FR [41]) is locked by the arm (FR release [25]) (3).
4. By pushing the lever (FR [41]), the lever (FR cam [22]) is pushed in the direction of the arrow (4).
5. Through being pushed, the lever (FR cam [22]) moves the lever assembly (head plate [14]) backward a little. Through the backward movement of the lever assembly (head plate [14]), the playback head (150) also moves backward a little (5).



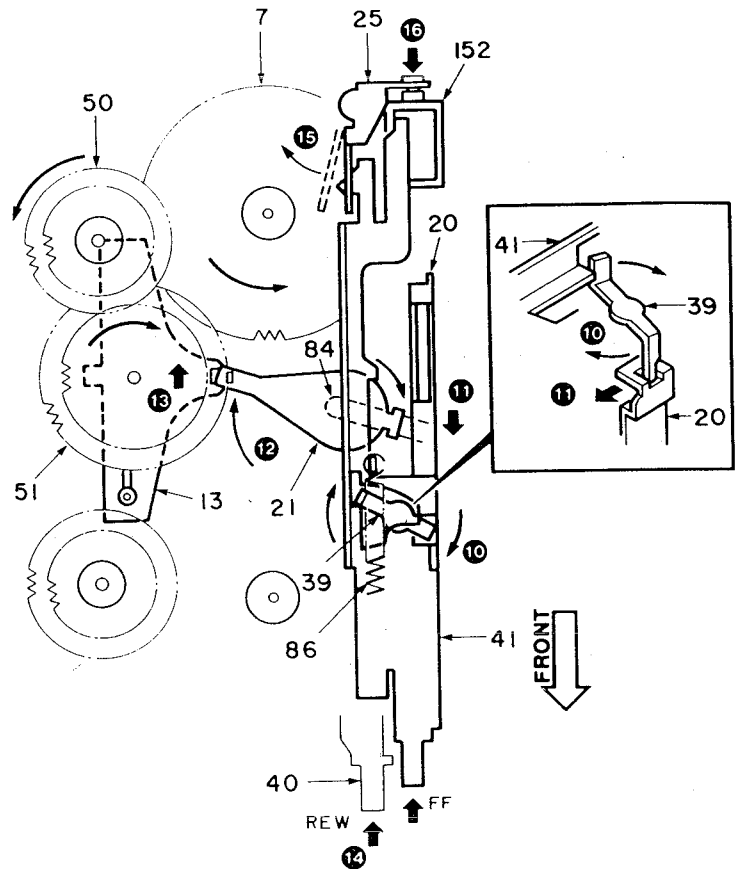
6. The arm (23) is slightly at an angle to the lever (34); however, through the backward movement of the lever assembly (head plate [14]), the arm (23) moves backward, its dowel being guided by the slot in the mechanism chassis (801) (6).
7. By moving the arm (23) backward, the pinch roller assembly (R [64]) and the pinch roller assembly (F [65]) move backward from the shafts on the flywheel assembly (F [7]) and the flywheel assembly (R [8]) through a formed wire spring (101) (7).
8. Through the backward movement of the dowel on the arm (23), the lever (34) moves in the direction of the arrow (8).
9. The gear (take-up [55]) attached to the slider assembly (B [12]) disengages from the gear (take-up [54]), and the take-up torque is removed (9).



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MECHANISM OPERATION DESCRIPTION

10. Meanwhile, through pushing the lever (FR [41]), the calking lever attached to the lever assembly (side panel [39]) is pushed by the lever (FR [41]) (10).
11. Through pushing the calking lever, the lever (FR cam [20]) moves forward (11).
12. Through the forward movement of the lever (FR cam [20]) the torsion coil spring (84) and the lever (FR cam [21]) turn in the direction of the arrow (12).
13. Through the turning of the lever (FR cam [21]), the gear assembly (FR gear [51]) attached to the lever assembly (FR [13]) engages with the gear of the flywheel assembly (F [7]) and turns the gear of the gear assembly (FR gear) in the direction of the arrow (13).
14. To release FF, slightly depress the lever (FR [40]) (14).
15. By depressin the lever (FR [40]), the arm (FR release [25]) moves, and the lever (FR [41]) returns by the tension of the tension spring (86) (15).
16. In the operation of T.ADV, electricity is supplied to the solenoid (152), which attracts the arm (FR release [25]). The lock on the arm (FR release [25]) is released, FF is released and FWD PLAY is engaged (16).

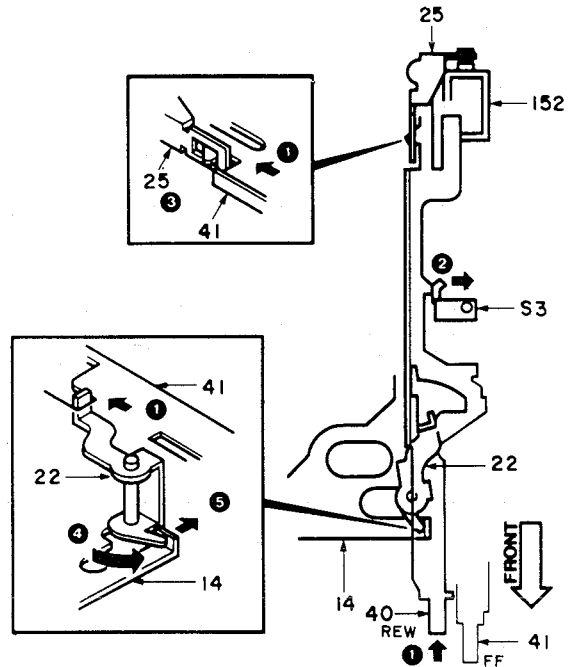


KRC-464D/L

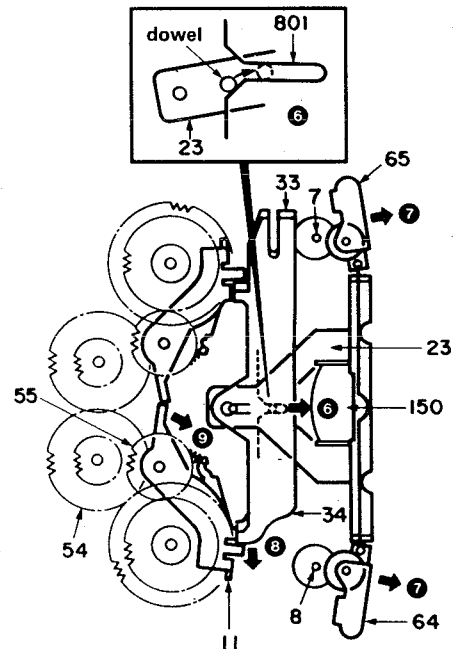
MECHANISM OPERATION DESCRIPTION

REW

1. Push the lever (FR [40]) (1).
2. Pushing the lever (FR [40]) closes the leaf switch S3 and muting is applied (2).
3. The lever (FR [40]) is locked by the arm (FR release [25]) (3).
4. By pushing the lever (FR [40]), the lever (FR cam [22]) is pushed in the direction of the arrow (4).
5. Through being pushed, the lever (FR cam [22]) moves the lever assembly (head plate [14]) backward a little. Through the backward movement of the lever assembly (head plate [14]), the playback head (150) also moves backward a little (5).



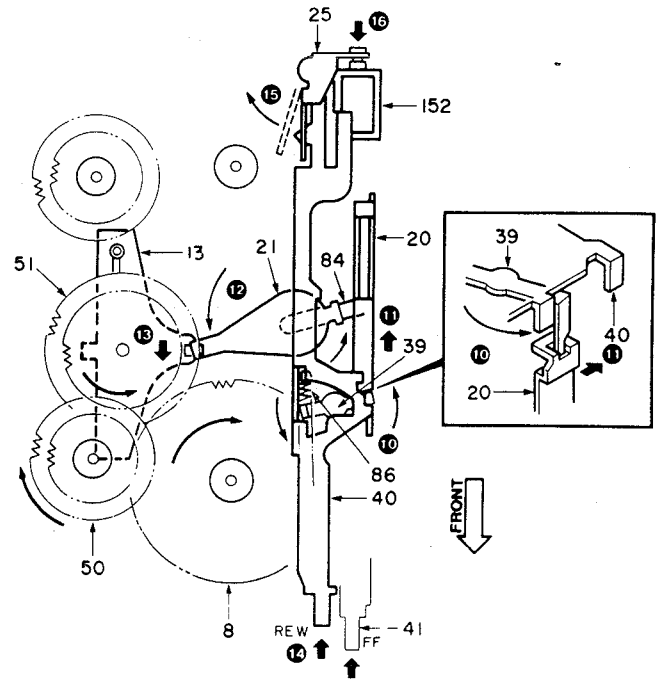
6. The arm (23) is slightly at an angle to the lever (34); however, through the backward movement of the lever assembly (head plate [14]), the arm (23) moves backward, its dowel being guided by the slot in the mechanism chassis (801) (6).
7. Through the backward movement of the arm (23), the pinch roller assembly (F [7]) and the pinch roller assembly (R [8]) move backward from the shafts of the flywheel assembly (F [7]) and the flywheel assembly (R [8]) (7).
8. Through the backward movement of the dowel on the arm (23), the lever (34) moves in the direction of the arrow (8).
9. The gear (take-up [55]) attached to the slider assembly (A [11]) disengages from the gear (take-up [54]), and the take-up torque is removed (9).



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MECHANISM OPERATION DESCRIPTION

10. Meanwhile, through pushing the lever (FR [40]), the calking lever attached to the lever assembly (side panel [39]) is pushed by the lever (FR [40]) (10).
11. By pushing the calking lever, the lever (FR cam [20]) moves backward (11).
12. By the backward movement of the lever (FR cam [20]), the torsion coil spring (84) and the lever (FR cam [21]) turn in the direction of the arrow (12).
13. Through the turning of the lever (FR cam [21]), the gear assembly (FR gear [51]) attached to the lever assembly (FR [13]) engages with the gear of the fly wheel assembly (R [8]) and turns the gear of the gear assembly (FR gear [51]) in the direction of the arrow (13).
14. To release REW, slightly depress the lever (FR [41]) (14).
15. By depressing the lever (FR [41]), the arm (FR release [25]) moves, and the lever (FR [40]) returns by the tension of the tension spring (86) (15).
16. In the operation of T.ADV, electricity is supplied to the solenoid (152), which attracts the arm (FR release [25]). The lock on the arm (FR release [25]) is released, REW is released, and RVS PLAY is engaged (16).

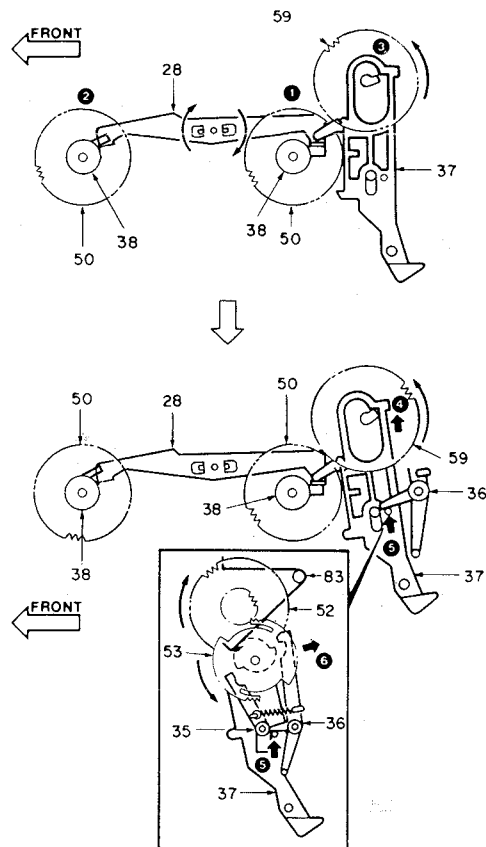


KRC-464D/L

MECHANISM OPERATION DESCRIPTION

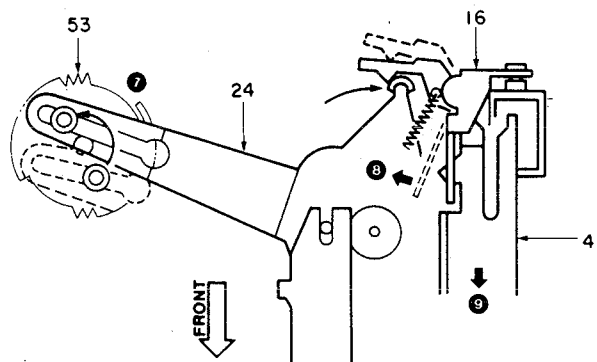
AUTO REVERSE

1. During FWD PLAY, when the rotation of the gear assembly (reel base [50]) of the take-up side stops at the end of the tape, the lower lever (sensor [38]) stops pushing the lever (sensor [28]) (1).
2. The operation for RVS PLAY is the same as that for FWD PLAY (2).
3. These end sensors on the take-up side stop pushing the end sensor lever (3).
4. The lever (sensor [37]) moves forward, riding on the cam of the gear (switch [59]) (4).
5. Through the forward movement of the lever (sensor [37]), its boss pushes the arm (36) (5).
6. The arm (36) releases the lock of the gear (switch [53]), the gear assembly (switch [53]) is pushed by the torsion coil spring (83), and engages with gear assembly (take-up [52]) (6).



7. The gear (switch [53]) makes a half-turn, and operates the program (7).
8. At the tape end during the operation of FF or FWD, the end sensor is activated, and the arm (24) moves the lever (reverse [16]) during the program operation (8).
9. The level (FR [41]) and the lever (FR [40]) are released (9).

* The rotation of the gear assembly (reel base [50]) resets the lever (sensor [37]). The cam of the gear (switch [49]) pushes the lever (sensor [37]) to set it. After a half-turn of the cam of the gear assembly (switch [59]), the lever (sensor [37]) moves forward.

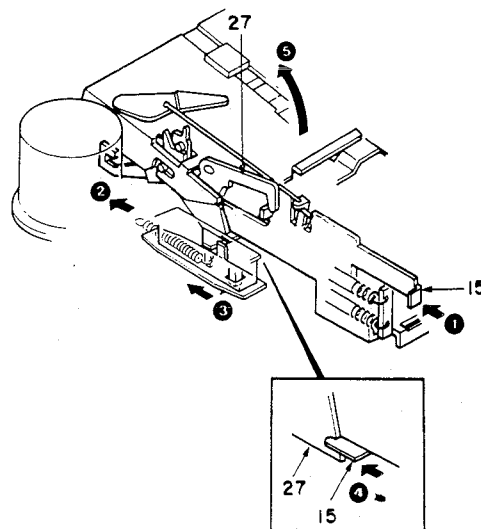


KRC-464D/L

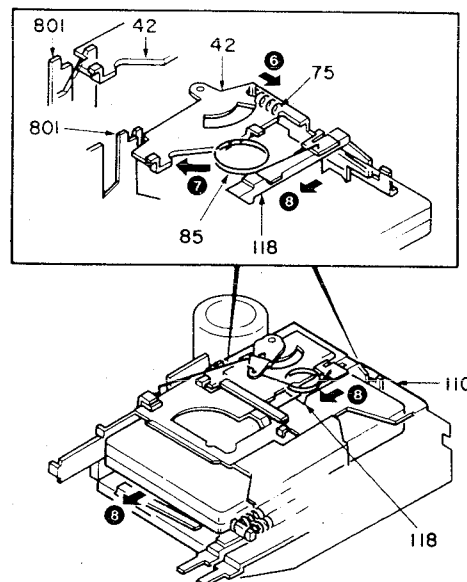
MECHANISM OPERATION DESCRIPTION

EJECT

1. Push the lever assembly (eject [15]) (①).
2. By pushing the lever assembly (eject [15]), the torsion coil spring (95) pushes the lever (49) (②).
3. Through pushing the lever (49), the slide switch S1 is turned off, and the lever assembly (head plate [14]) moves backward in the KEY OFF operation (③).
4. The lever assembly (eject [15]) pushes and turns the arm (action [27]) (④).
5. By turning, the arm (action) pushes up the holder (action plate [110]) (⑤).



6. When the holder (action plate [110]) is pushed up, the lever (reverse [42]) is pulled by the tension spring (75) and turns (⑥).
7. In turning, the lever (reverse [42]) is put on the lever of the mechanism chassis (801) (⑦).
8. The cassette guide (118) is pushed forward by the torsion coil spring (85), and the cassette tape is ejected (⑧).



ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	DISCRIMINATOR	(A) 98.1MHz 1kHz±40kHz dev 60dBμ(Ant input)	Connect an oscilloscope to pins 7 and 13 of IC101(DC 50mV).	FM 98.1MHz	T101	0V	(a)
2	SOFT MUTE RATIO	(A) 98.1MHz 1kHz±40kHz dev 60dBμ(Ant input)	(D) Connect an AC Voltmeter to SP output.	FM 98.1MHz	VR102	Difference between 60dBμ input and 20dBμ input levels: 25dB	
3	AUTO STOP LEVEL	(A) 98.1MHz 1kHz±40kHz dev 20dBμ(Ant input)	Connect a DC Voltmeter between pin 4 of IC803 (TC4069UBP) and GND.	FM 98.1MHz	VR104	Point at which DC 4.5V changes to 0V	(b)
4	SEPARATION	(B) 98.1MHz 1kHz±40kHz dev Pilot: ±6kHz dev Selector: L or R 60dBμ(Ant input)	(D) Connect an AC Voltmeter to SP output. (Reference level: 2V/40)	FM 98.1MHz	VR151	Minimum crosstalk	
5	ANRC	(B) 98.1MHz 1kHz±40kHz dev Pilot: ±6kHz dev Selector: L or R 35dBμ(Ant input)	(D) Connect an AC Voltmeter to SP output. (Reference level: 2V/40)	FM 98.1MHz	VR103	Separation: 10dB	
SDK SECTION ※ D only							
6	DK LEVEL	(E) 98.1MHz 0 mod SK 5.33% DK 30% BK 60% 60dBμ(Ant input)	Connect the DC voltmeter between pins of TP1	FM 98.1MHz SDK:OFF	L901 VR901	Maximum output	(c)
After the ANRC adjustment, perform the separation.							
MW SECTION Note 1: If the sensitivity is too low to make adjustments, increase the ANT input as required. Make adjustments at an input level at which the AGC does not operate.							
(1)	AUTO STOP LEVEL	(C) 999kHz 400Hz 30% MOD 32dBμ(Ant input)	Connect a DC Voltmeter between pin 4 of IC803 (TC4069UBP) and GND.	999kHz	VR251	Point at which DC 4.5V changes to 0V	(d)
CASSETTE DECK SECTION							
[1]	DEMAGNETIZATION AND CLEANING	—	—	Power OFF	Recording head Capstan Pinch roller	Demagnetize the recording head with the head demagnetizer. Clean the recording head, revase head, capstan, and pinch roller with alcohol.	
[2]	AZIMUTH	MTT-256 10kHz. -20dB	(D)	PLAY	Azimuth adjustment screw	Adjust the azimuth adjustment screw so that maximum output is obtained.	(e)

REGLAGES

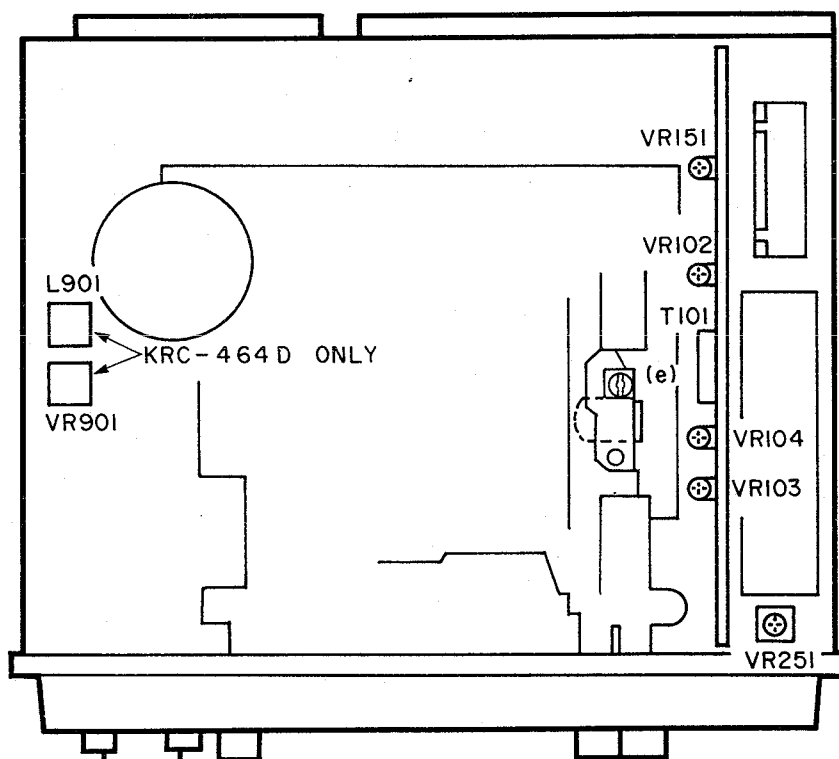
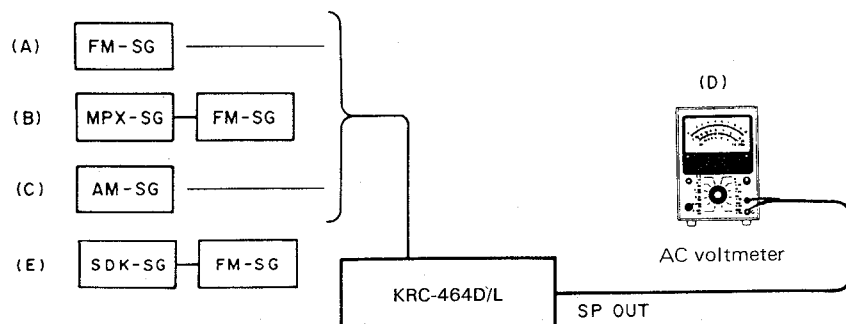
N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER (AMPLI TUNER)	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF							
1	DISCRIMINATEUR	(A) 98,1MHz 1kHz±40kHz dév 60dBμ(Entrée ANT)	Connecter un oscilloscope aux broches 7 et 13 de IC101 (DC 50mV).	FM 98,1MHz.	T101	0V	(a)
2	RAPPORT "SOFT MUTE"	(A) 98,1MHz 1kHz±40kHz dév 60dBμ(Entrée ANT)	(D) Connecter un voltmètre à la sortie SP.	FM 98,1MHz	VR102	Différence entre les niveaux d'entrée 60dBμ et 20dBμ : 25dB	
3	NIVEAU ARRET AUTOMATIQUE	(A) 98,1MHz 1kHz±40kHz dév 20dBμ(Entrée ANT)	Connecter un voltmètre DC entre la broche 4 de IC803(TC4069UBP) et GND	FM 98,1MHz	VR104	Point sur lequel DC 4,5V charge wuv 0V	(b)
4	SEPARATION	(B) 98,1MHz 1kHz±40kHz dév Pilote:6kHz dév Sélection: L ou R 60dBμ(Entrée ANT)	(D) Connecter un voltmètre à la sortie SP. (Niveau de référence: 2V/4Q)	FM 98,1MHz	VR151	Transmodulation minimum	
5	ANRC	(B) 98,1MHz 1kHz±40kHz dév Pilote:6kHz dév Sélection: L ou R 35dBμ(Entrée ANT)	(D) Connecter un voltmètre à la sortie SP. (Niveau de référence: 2V/4Q)	FM 98,1MHz	VR103	Séparation: 10dB	
SECTION SDK ※ Seulement D							
6	NIVEAU DE DK	(E) 98,1MHz 0 mod SK 5,33% DK 30% BK 60% 60dBμ(Entrée ANT)	Raccorder le voltmètre CC entre les deux broches de TP1.	FM 98,1MHz SDK:OFF	L901 VR901	Sortie maximum	(c)
Après le réglage ANRC, effectuer à nouveau le réglage de séparation.							
SECTION MW Note 1: Si la sensibilité est trop basse pour effectuer des réglages, augmenter le niveau d'entrée comme requis. Effectuer les réglages d'entrée auxquels l'AGC ne fonctionne pas.							
(1)	NIVEAU ARRET AUTOMATIQUE	(C) 999kHz 400Hz 30% MOD 32dBμ(entrée ANT)	Connecter un voltmètre DC entre la broche 4 de IC803(TC4069UBP) et GND.	999kHz	VR251	Point sur lequel DC 4,5V charge wuv 0V	(d)
SECTION DU MAGNETPHONE							
[1]	DÉMAGNÉTISATION ET NETTOYAGE	-	-	Power OFF	Tête d'enregistrement Cabestan Galet presseur	Démagnétiser la tête d'enregistrement avec un démagnétiseur de tête. Nettoyer la tête d'enregistrement, la tête d'effacement, le cabestan et le galet presseur avec de l'alcool.	
[2]	AZIMUT	MTT-256 10kHz. -20dB	(D)	PLAY	Vis de réglage de l'azimut	Ajuster la vis de réglage de l'azimut de telle manière que l'on puisse obtenir un niveau de sortie maximum.	(e)

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
MF-ABTEILUNG							
1	DISCRIMINATOR	(A) 98,1MHz 1kHz±40kHz Hub 60dBμ(Ant-Eingang)	Ein Oszilloskop an Stifte 7 und 13 des IC101 anschließen (DC 50mV).	FM 98,1MHz	T101	0V	(a)
2	SOFT-MUTE VERHÄLTNIS	(A) 98,1MHz 1kHz±40kHz Hub 60dBμ(Ant-Eingang)	(D) Ein Voltmeter an den SP-Ausgang anschließen.	FM 98,1MHz	VR102	Unterschied zwischen Eingangspegel von 60dBμ und 20dBμ: 25dB	
3	AUTO-STOP PEGEL	(A) 98,1MHz 1kHz±40kHz Hub 20dBμ(Ant-Eingang)	Einen DC-Voltmeter zwischen IC803 Stift 4 (TC4069UBP) und GND anschließen.	FM 98,1MHz	VR104	Stelle an der sich DC 4,5V auf 0V umändert	(b)
4	TRENNUNG	(B) 98,1MHz 1kHz±40kHz Hub Pilot:±6kHz Hub Wähler: L oder R 60dBμ(Ant-Eingang)	(D) Ein AC-Voltmeter an den SP-Eingang anschließen. (Bezugspegel: 2V/4Ω)	FM 98,1MHz	VR151	Minimales Übersprechen	
5	ANRC	(B) 98,1MHz 1kHz±40kHz Hub Pilot:±6kHz Hub Wähler: L oder R 35dBμ(Ant-Eingang)	(D) Ein AC-Voltmeter an den SP-Eingang anschließen. (Bezugspegel: 2V/4Ω)	FM 98,1MHz	VR103	Trennung: 10dB	
SDK-ABTEILUNG ※ Nur D							
6	DK PEGEL	(E) 98,1MHz 0 mod SK 5,33% DK 30% BK 60% 60dBμ(Ant-Eingang)	Den Gleichstrom- Voltmeter zwischen den beiden Stiften von TP1 anschließen.	FM 98,1MHz SDK:OFF	L901 VR901	Maximale Leistung	(c)
Nach der ANRC-Einstellung die Separations-Einstellung(Stereo Kanal Trennung) erneut durchführen.							
MW-ABTEILUNG Note 1: Falls die Empfindlichkeit zu niedrig ist, um eine Abgleichung vorzunehmen, die ANT-Eingabe wie erforderlich erhöhen. Die Abgleichung bei einem Eingangspegel vornehmen, an dem die AGC wirkungslos ist.							
(1)	AUTO-STOP PEGEL	(C) 999kHz 400Hz 30% MOD 32dBμ(Ant-Eingang)	Ein DC-Voltmeter zwischen Stift 4 am IC803(TC4069UBP) und GND anschließen.	999kHz	VR251	Stelle an der sich DC 4,5V 0V umändert.	(d)
CASSETTE DECK ABTEILUNG							
[1]	ENTMAGNETISIERUNG UND REINIGUNG	—	—	Power OFF	Sprechkopf Tonrolle Klemmrolle	Mit dem Entmagnetisierer entmagnetisieren. Sprechkopf, Löschkopf, Klemmrolle mit Alkohol reinigen.	
[2]	AZIMUT	MTT-256 10kHz. -20dB	(D)	PLAY	Azimet- Einstellschraube	Die Azimet-Einstellschraube der art herstellen, daß die maximale Ausgangs- leistung erhalten wird.	(e)

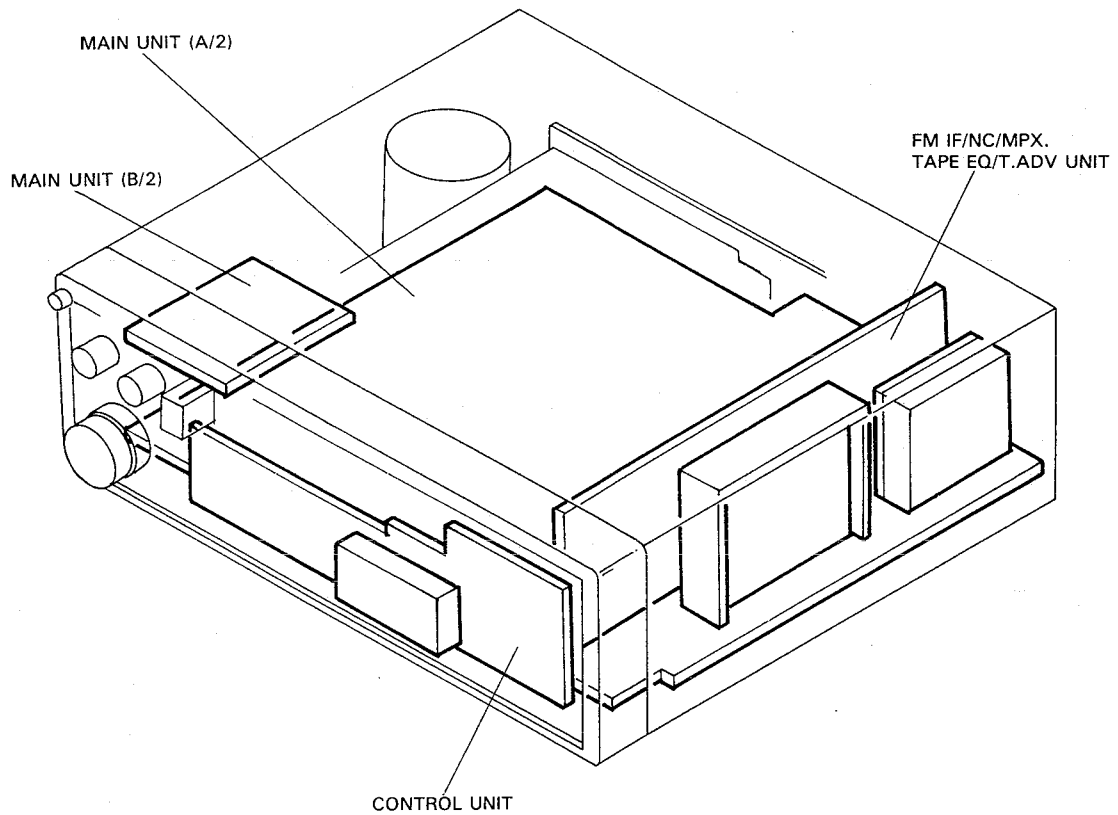
KRC-464D/L

ADJUSTMENT/REGLAGES/ABGLEICH



KRC-464D/L

PC BOARD LAYOUT



VOLTAGE TABLES

FM IF/NC/MPX./TAPE EQ/T.ADV UNIT

IC1

1	1.4V
2	2.0V
3	1.4V
4	7.4V
5	3.0V
6	2.0V
7	0V
8	7.5V
9	7.5V
10	1.1V
11	2.6V
12	2.6V
13	5.8V
14	7.4V
15	4.6V
16	7.4V

FET1

G ₁	—
G ₂	—
S	—
D	—

E151

1	3.4V
2	2.6V
3	2.6V
4	2.6V
5	2.6V
6	4.9V
7	0.8V
8	1.8V
9	3.5V
10	3.5V
11	2.6V
12	3.2V
13	0.8V
14	3.5V
15	8.2V
16	4.3V
17	0V
18	0V
19	0V
20	0V
21	4.0V

IC101

1	2.4V
2	2.4V
3	2.4V
4	0V
5	2.0V
6	0V
7	4.3V
8	4.8V
9	4.8V
10	0V
11	4.8V
12	7.7V
13	4.8V
14	4.8V
15	1~5V
16	2(4)V

IC301

1	4.2V
2	2.5V
3	1.0V
4	0V
5	1.2V
6	0V
7	7.8V
8	0V
9	—
10	0V
11	1.2V
12	0V
13	1.0V
14	0V
15	4.4V
16	2.6V

Q101

E	0.8V
C	7.0V
B	1.5V

Q102

G	—
S	0V
D	—

Q103

G	—
S	0V
D	—

Q104

E	—
C	—
B	—

Q105

E	0V
C	—
B	—

Q106 (464D only)

E	0V
C	0V
B	—

Q151

E	0V
C	2.4V
B	—

Q152 (464L only)

E	2.6V
C	2.6V
B	—

Q301

E	7.8V
C	14V
B	8.4V

Q701

E	0V
C	0V
B	4.6V

Q702

E	—
C	—
B	—

IC701

1	0.8V
2	0.8V
3	0V
4	11.2V
5	—
6	14V
7	0V
8	0V
9	0.8V

AM TUNER UNIT

IC1

1	2.6V
2	1.8V
3	0.7V
4	0.6V
5	0V
6	2.0V
7	8.3V
8	8.3V
9	0.8V
10	8.3V
11	0.6V
12	0V
13	3.0V
14	8.3V
15	1.2V
16	1.4V
17	3.0V
18	5.7V
19	5.7V
20	3.0V

FET1

G	—
S	—
D	—

FET2

G	—
S	—
D	—

TR2

E	—
C	—
B	0.6V

TR3

E	—
C	—
B	2.6V

TR4 (464L only)

E	—
C	—
B	—

TR5 (464L only)

E	—
C	—
B	—

MAIN UNIT

IC501

1	14.4V
2	7.0V
3	0V
4	7.0V
5	0.6V
6	0V
7	1.2V
8	1.2V
9	1.2V
10	0V
11	1.2V
12	0V
13	13.8V
14	7.0V
15	0V
16	7.0V

IC502

1	3.2V
2	0V
3	0V
4	0V
5	6.6V
6	0V
7	3.2V
8	2.8V
9	2.8V
10	3.8V
11	0V
12	0V
13	2.8V
14	2.8V

IC503

1	8.0V
2	4.1V
3	4.1V
4	4.1V
5	0V
6	4.1V
7	4.1V
8	4.1V
9	8.0V

IC803

1	0V
2	4.6V
3	0V
4	4.8V
5	4.8V
6	0V
7	0V
8	4.8V
9	0V
10	4.6V
11	0V
12	0V
13	4.0V
14	4.8V

IC801

1	—
2	0.5V
3	—
4	4.8V
5	1(5)V
6	2V
7	4.8V
8	4.8V
9	4.7V
10	(4.7)V
11	0V
12	(4.6)V
13	0V
14	0V
15	—
16	4.7V
17	—
18	0/4.8V
19	4.8V
20	—
21	—
22	(4.8)V
23	0V
24	2.4V
25	1.5V
26	0V
27	—
28	—
29	2.4V
30	2.4V
31	2.4V
32	2.4V
33	2.4V
34	2.4V
35	2.4V
36	2.4V
37	2.4V
38	2.4V
39	2.4V
40	2.4V
41	2.4V
42	2.4V
43	2.4V
44	2.4V
45	2.4V
46	2.4V
47	2.4V
48	2.4V
49	2.4V
50	2.4V
51	2.4V
52	2.4V
53	2.4V
54	2.4V
55	2.4V
56	2.4V
57	2.4V
58	—
59	2~3V
60	2~3V
61	2~3V
62	2~3V
63	—
64	SD:0V

IC802

1	2.4V
2	0V
3	0V
4	0V
5	2.4V
6	0V
7	0V
8	0V
9	2.4V
10	0V
11	0V
12	2.4V
13	2.4V
14	4.8V

IC901 (464D only)

1	0V
2	0.2V
3	0V
4	0V
5	4.0V
6	2.0V
7	8.0V
8	4.0V
9	4.0V
10	4.0V
11	3.2V
12	4.0V
13	3.0V
14	2.0V
15	4.0V
16	0V
17	3.2V
18	0V

IC902 (464D only)

1	4.0V
2	4.0V
3	4.0V
4	0V
5	4.0V
6	4.0V
7	4.0V
8	8.0V

Q251 (464L only)

E	8.4V
C	—
B	—

Q252

E	0V
C	—
B	1.4V

Q311

E	—
C	0V
B	—

Q401

E	14.2V
C	8.4V
B	13.6V

Q402

E	8.4V
C	13.6V
B	9.0V

Q403

E	8.4V
C	0(8.2)V
B	8.4(7.6)V

Q404

E	8.4V
C	8.2V
B	7.6V

Q405

E	0V
C	—
B	—

Q406

E	0V
C	—
B	—

Q407

E	0V
C	—
B	—

Q501

E	0V
C	0V
B	—

Q502

G	—
S	—
D	0V

Q503

E	0V
C	—
B	—

Q504

E	—
C	—
B	—

Q551

E	0V
C	—
B	—

Q552

G	—
S	—
D	—

Q801

E	—
C	—
B	—

Q802

E	—
C	4.8V
B	—

Q803

E	—
C	—
B	—

Q804 (464D only)

E	2.4V
C	—
B	—

Q805 (464D only)

E	2.4V
C	—
B	—

Q806

E	—
C	0V
B	—

Q807

G	0.5V
S	0.6V
D	7.9V

Q808 (464L only)

E	—
C	—
B	7.9V

Q809

E	—
C	1.2~7.5V
B	0.6V

Q810 (464L only)

E	—
C	—
B	—

PC BOARD (Component side view) (KRC-464D)

TONE UNIT

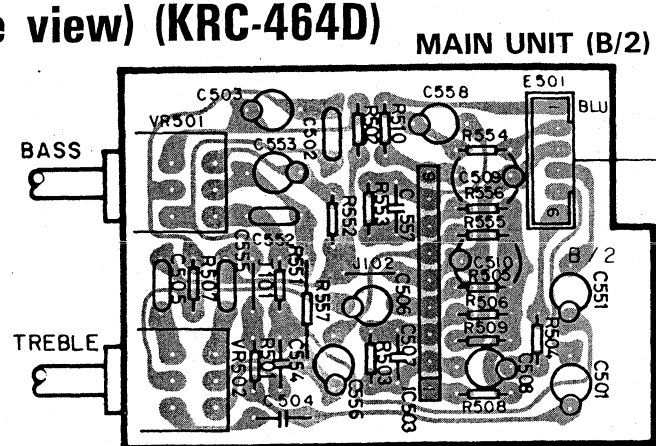
Ref. No.		Address
IC	Q	
503		1D

MAIN UNIT

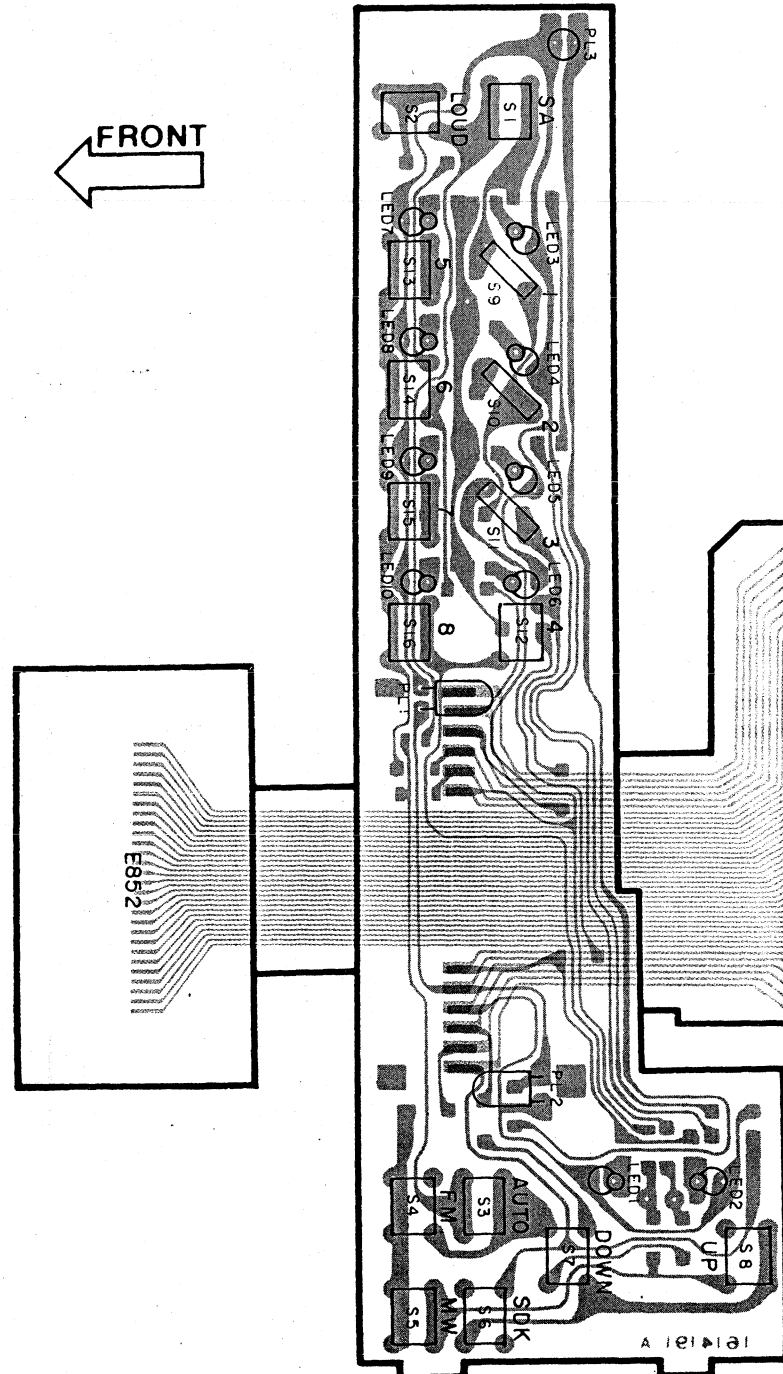
Ref. No.		Address
IC	Q	
	252	7F
	311	2J
	401	1I
	402	2I
	403	3H
	404	3H
	405	3I
	406	3H
	407	6F
	501	2F
	502	1G
	503	3J
	504	3J
	551	2F
	552	1G
	801	4H
	802	3I
	803	2I
	804	3G
	805	3G
	806	4H
	807	3I
	809	3I
	901	2G
	902	2G
	903	2G
501		5J
502		6I
801		6G
802		3F
803		3H
901		2H
902		2H

FM IF/NC/MPX, TAPE EQ/T.ADV UNIT

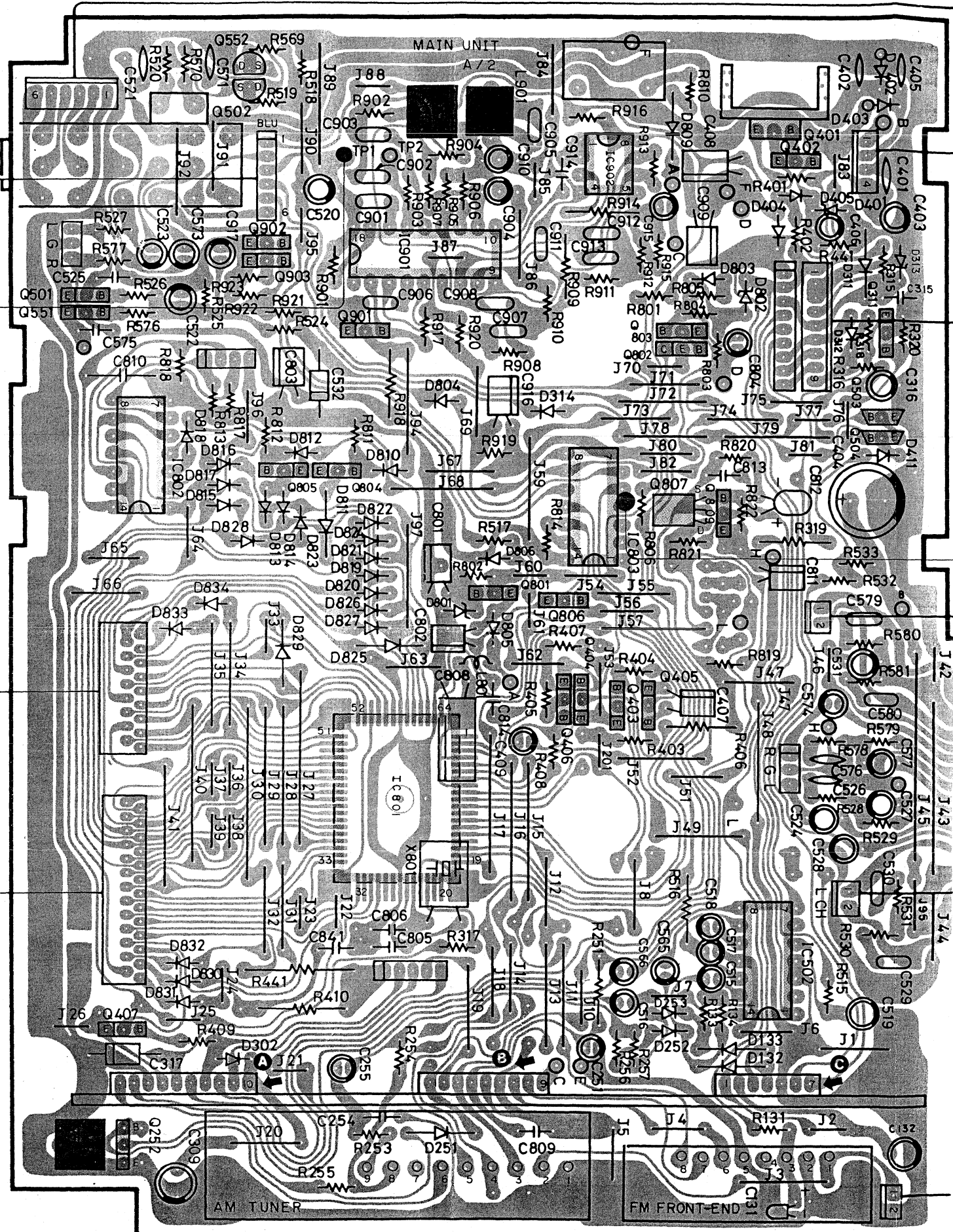
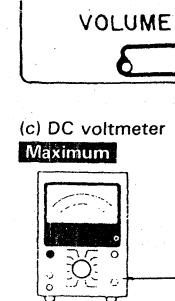
Ref. No.		Address
IC	Q	
	101	6O
	102	6N
	103	6N
	104	6M
	105	7M
	106	6N
	151	6O
	301	7L
	701	6M
	702	6M
101		6N
301		6L
701		6M

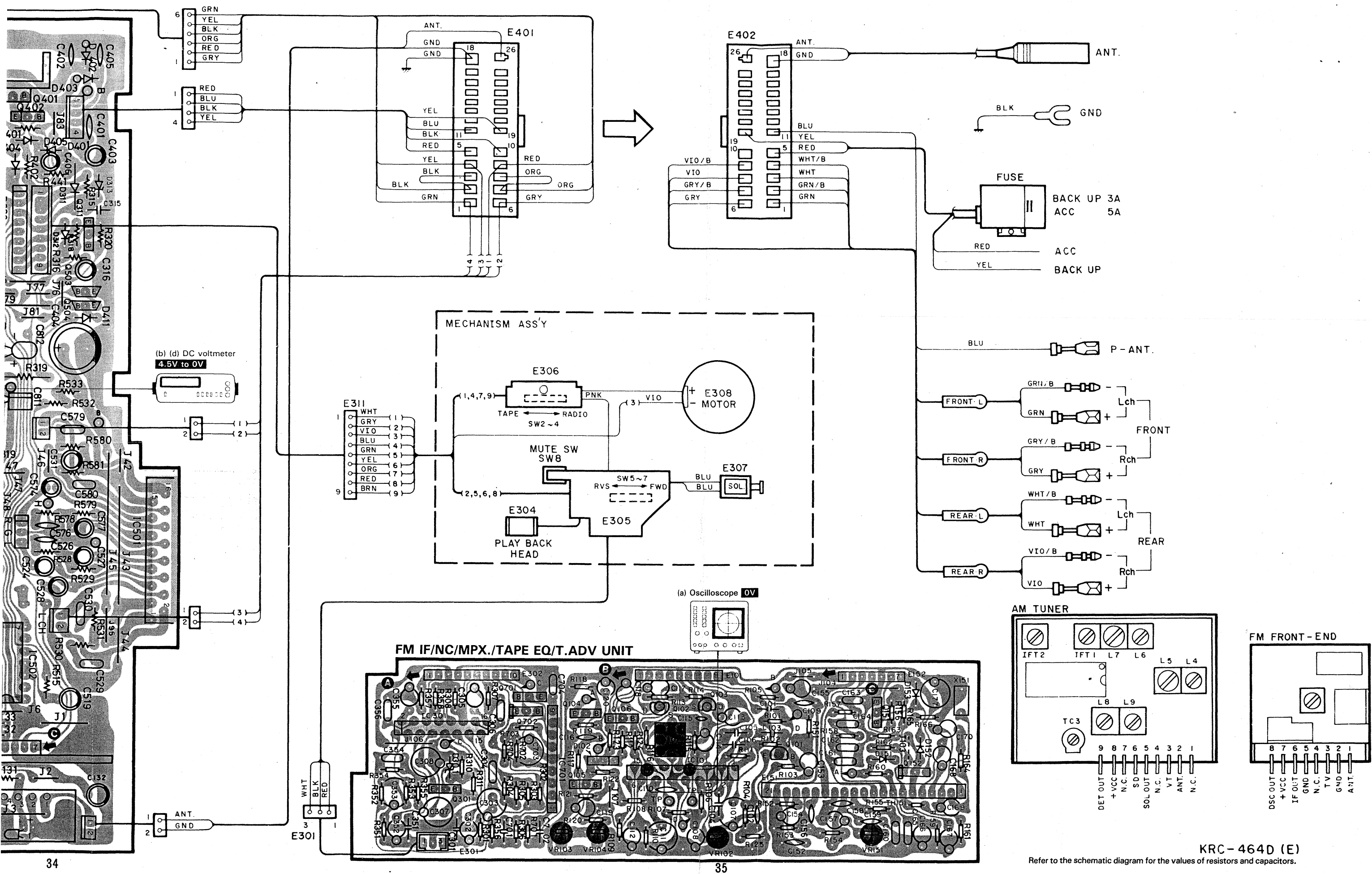


CONTROL UNIT



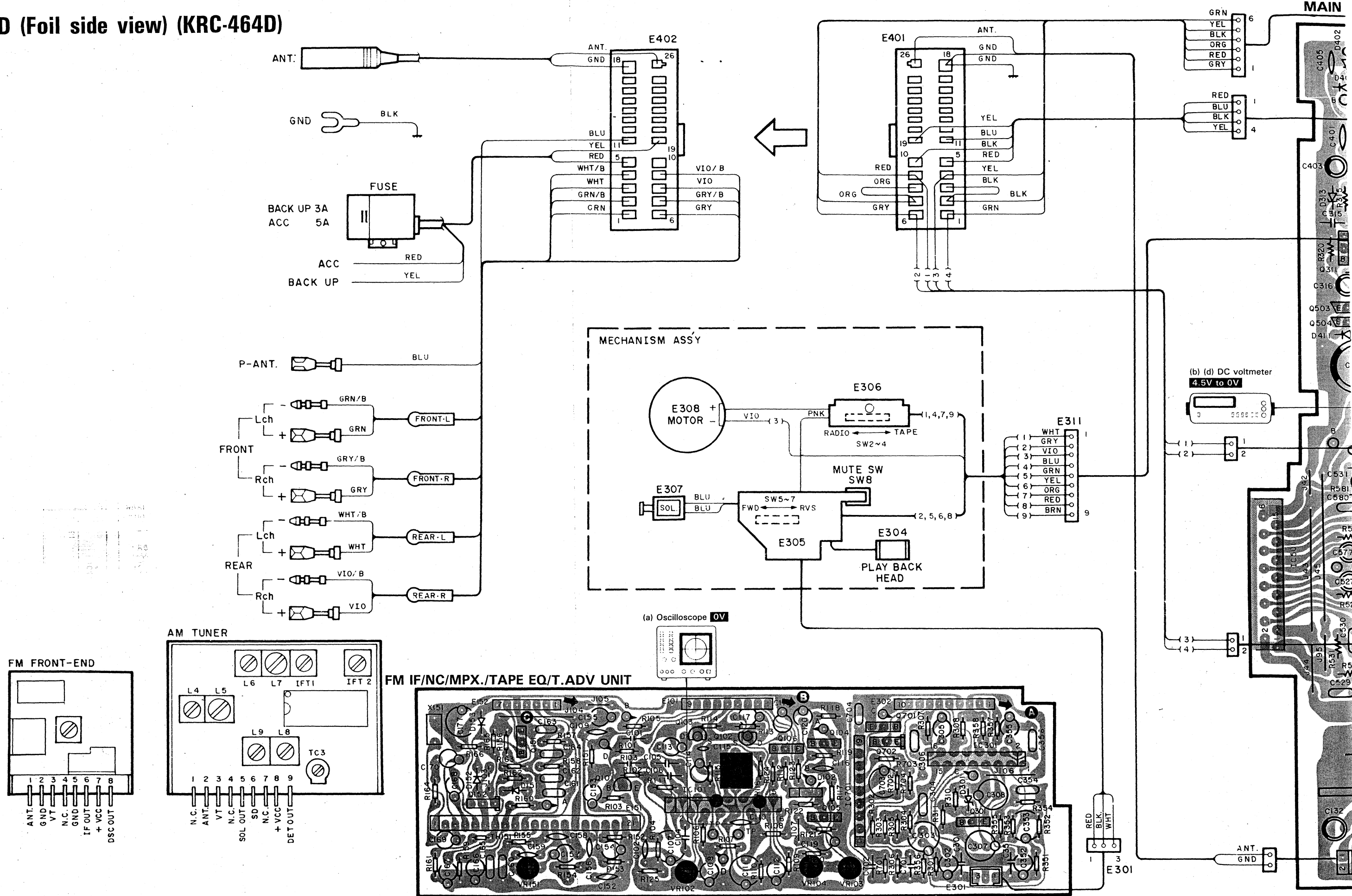
MAIN UNIT (A/2)

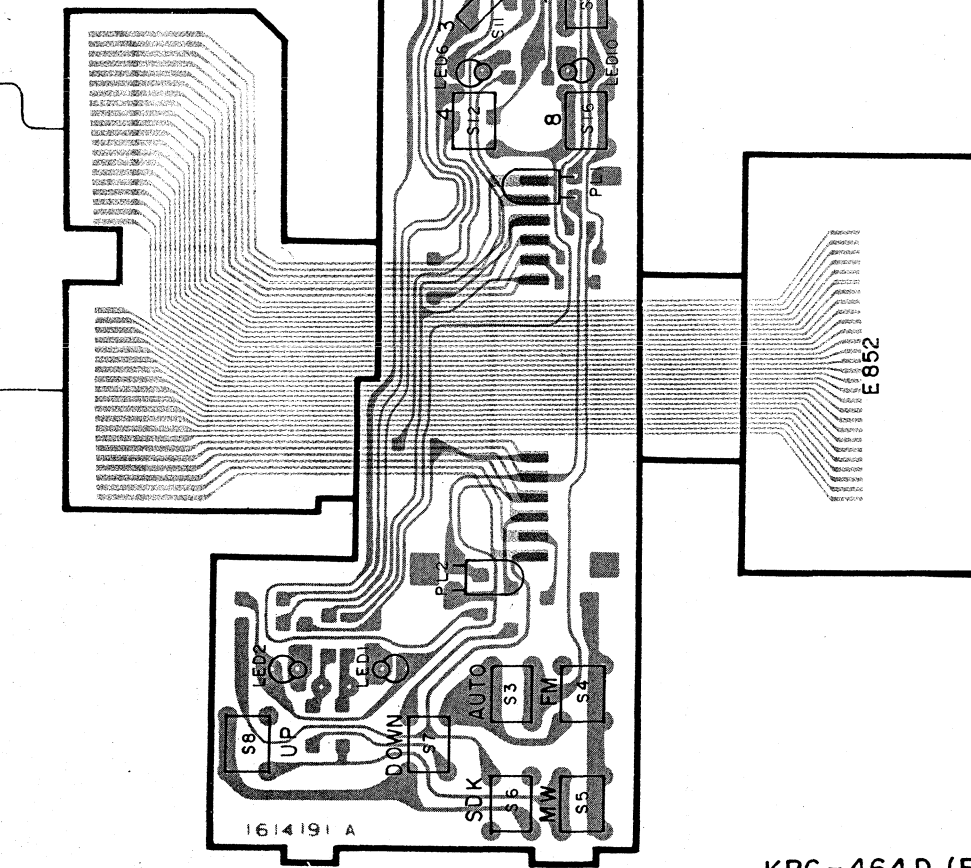
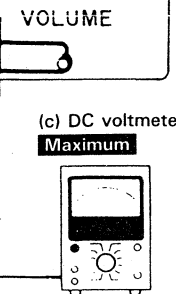




KRC-464D (E)
Refer to the schematic diagram for the values of resistors and capacitors.

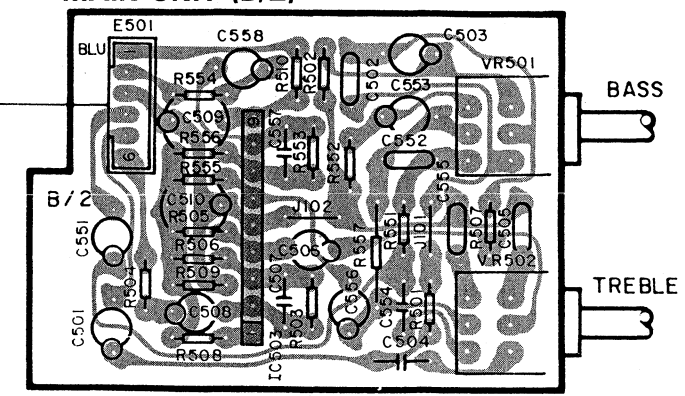
PC BOARD (Foil side view) (KRC-464D)





KRC-464 D (E)

CONTROL UNIT



FM IF/NC/MPX, TAPE EQ/T.ADV UNIT

Ref. No.		Address
IC	Q	
	101	6X
	102	6Y
	103	6Y
	104	6Z
	105	6Z
	106	6Z
	151	6X
	301	7AA
	701	6Z
	702	6Z
101		6Y
301		6AA
701		6Z

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view) (KRC-464L) MAIN UNIT (B/2)

TONE UNIT

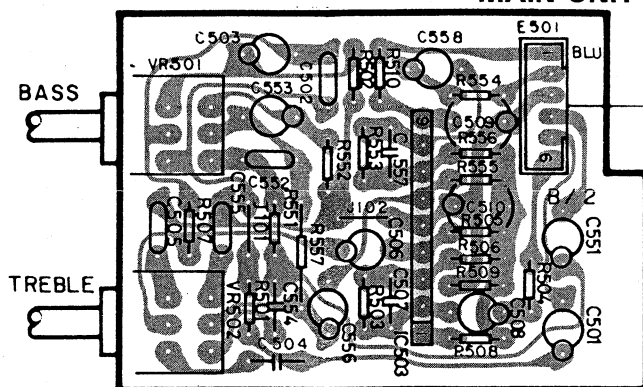
Ref. No.	Address
IC	Q
503	1AP

MAIN UNIT

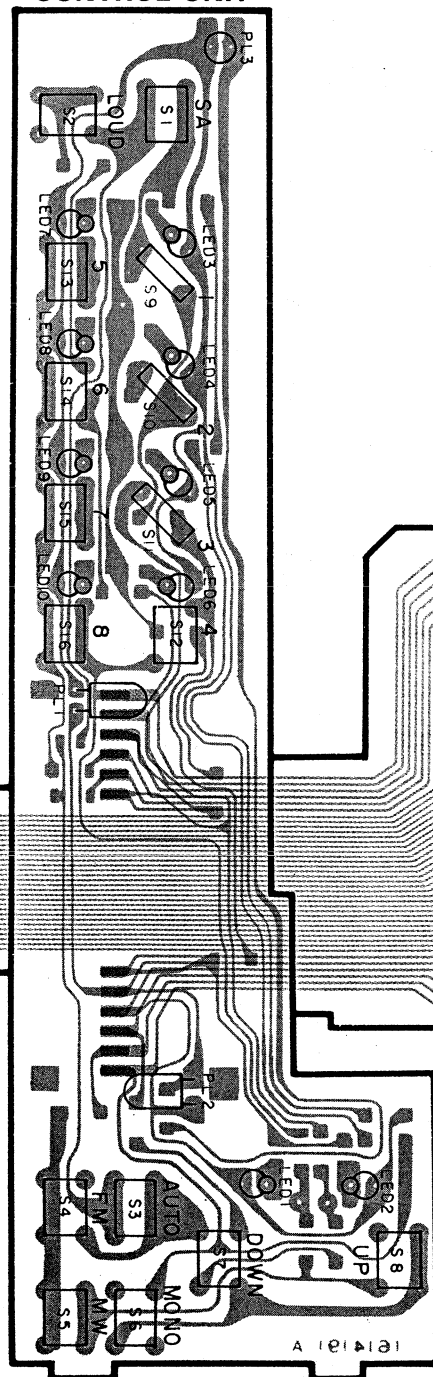
Ref. No.	Address
IC	Q
251	6AS
252	7AR
311	2AV
401	1AU
402	2AU
403	4AT
404	4AT
405	4AT
406	4AT
407	4AR
501	2AR
502	1AR
503	3AU
504	3AU
551	2AR
552	1AR
801	4AT
802	2AT
803	2AT
806	4AT
807	3AT
808	4AU
809	3AU
810	4AU
501	5AV
502	6AU
801	5AS
802	3AR
803	3AT

FM IF/NC/MPX, TAPE EQ./T.ADV UNIT

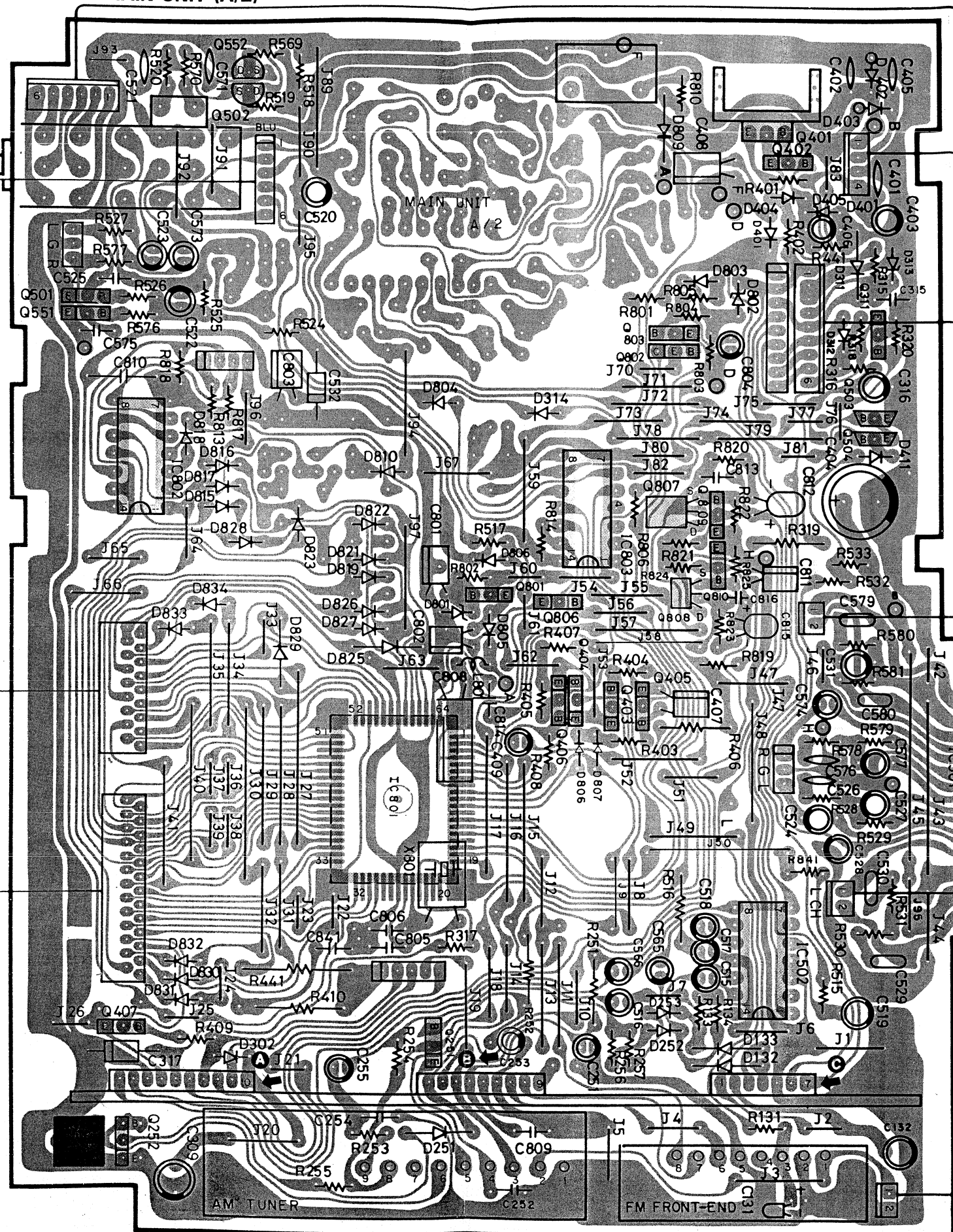
Ref. No.	Address
IC	Q
101	6BA
102	6AZ
103	6AZ
104	6AY
105	6AY
106	6AY
151	6BA
152	6BB
301	7AX
701	6AY
702	6AY
101	6AZ
301	6AX
701	6AY

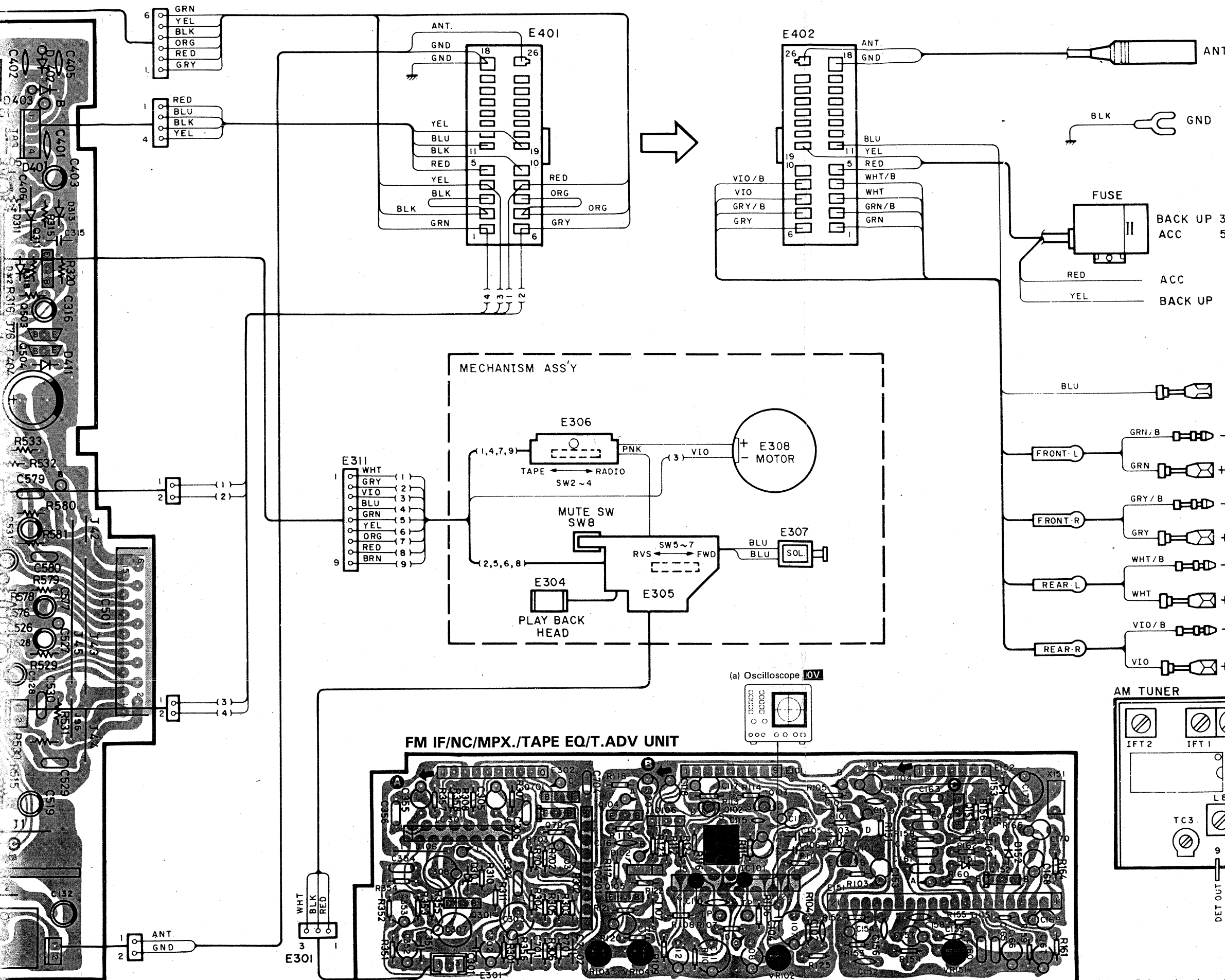


CONTROL UNIT

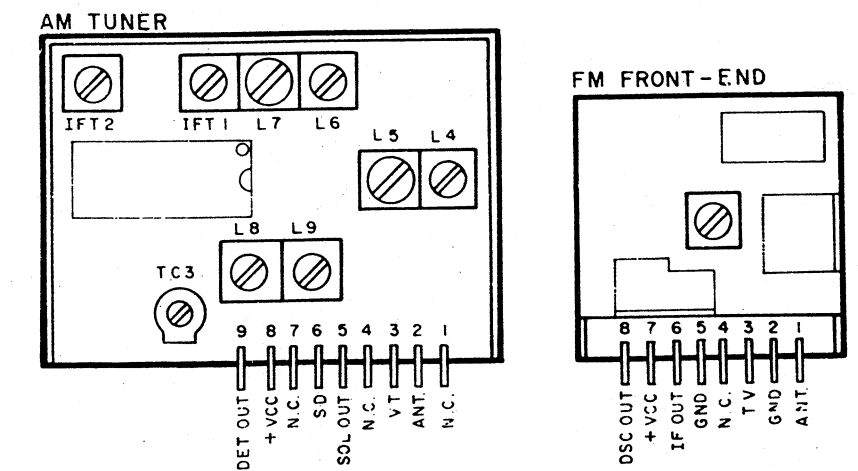


MAIN UNIT (A/2)



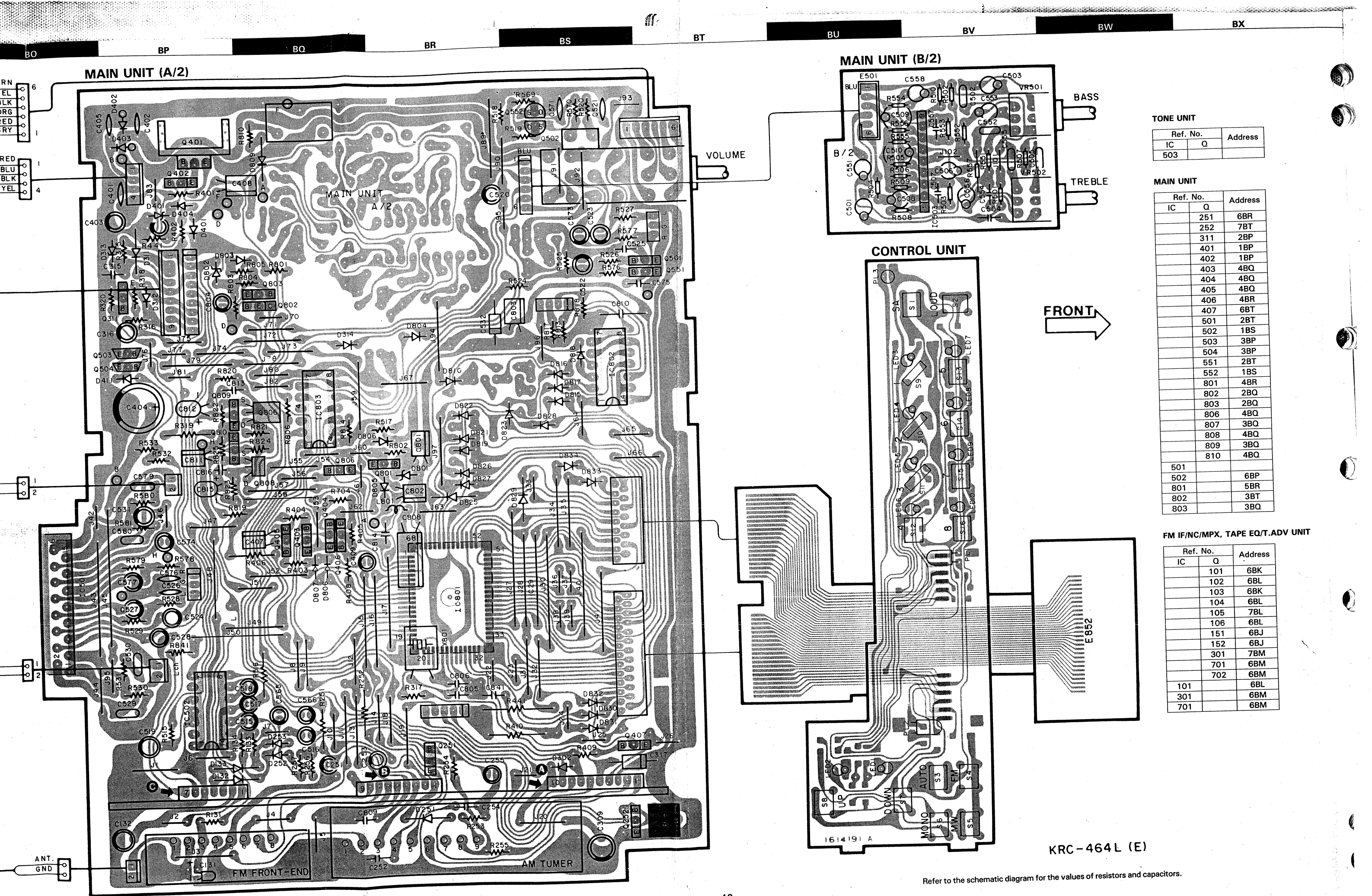


(a) Oscilloscope 0V



KRC-464L (E)

Refer to the schematic diagram for the values of resistors and capacitors.



TONE UNIT

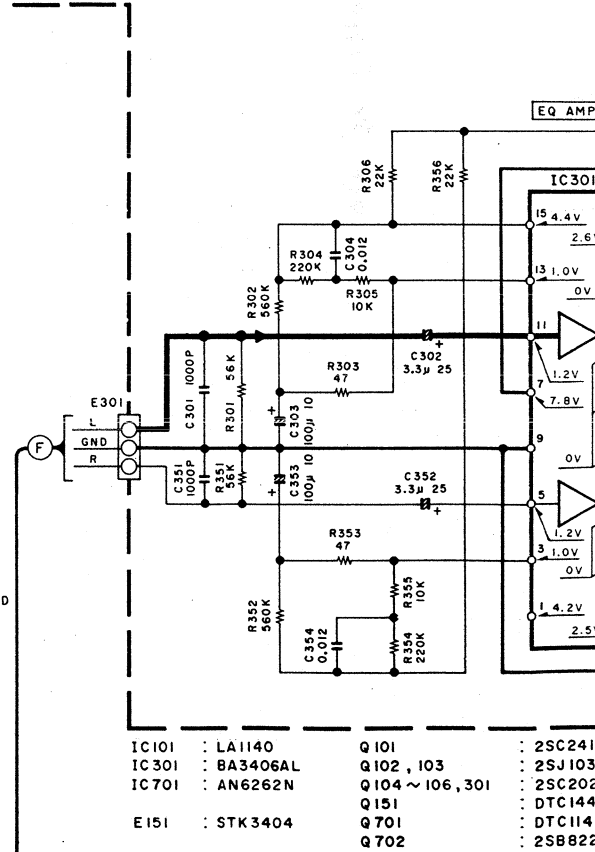
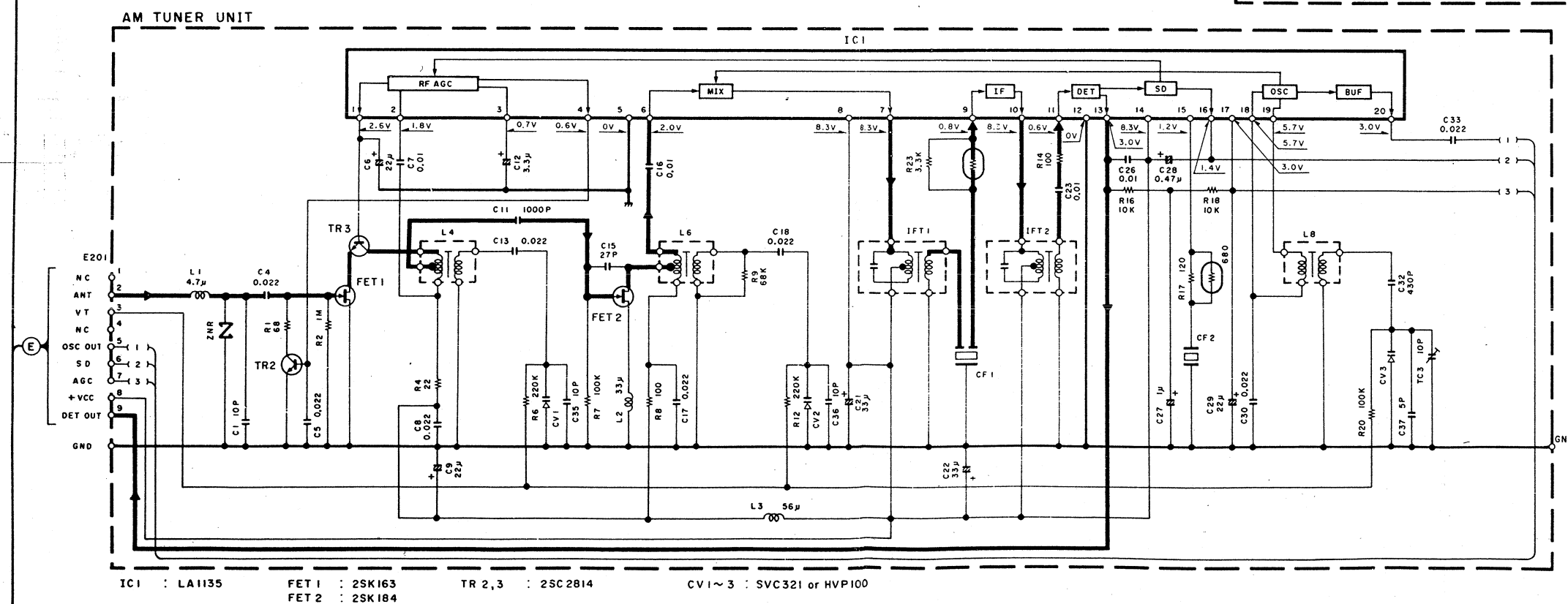
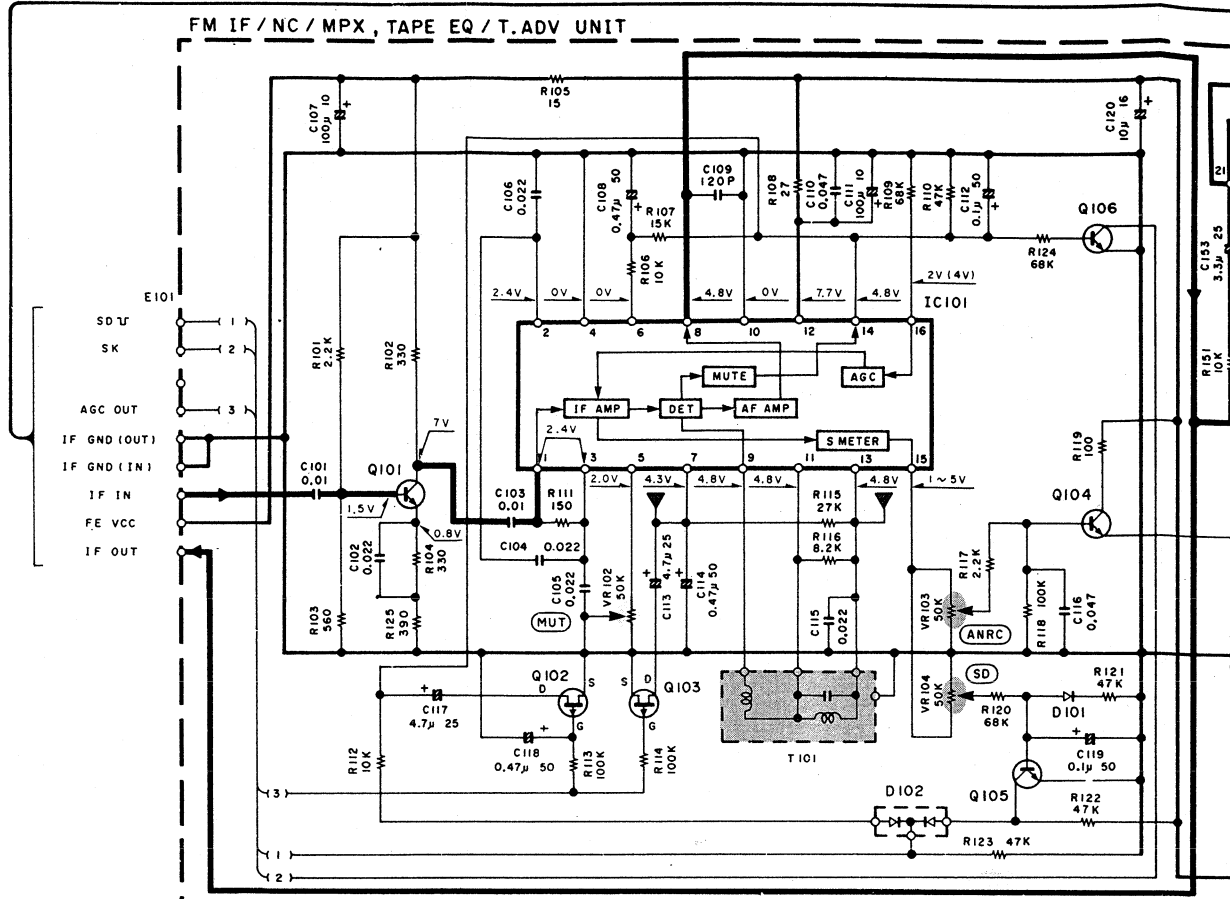
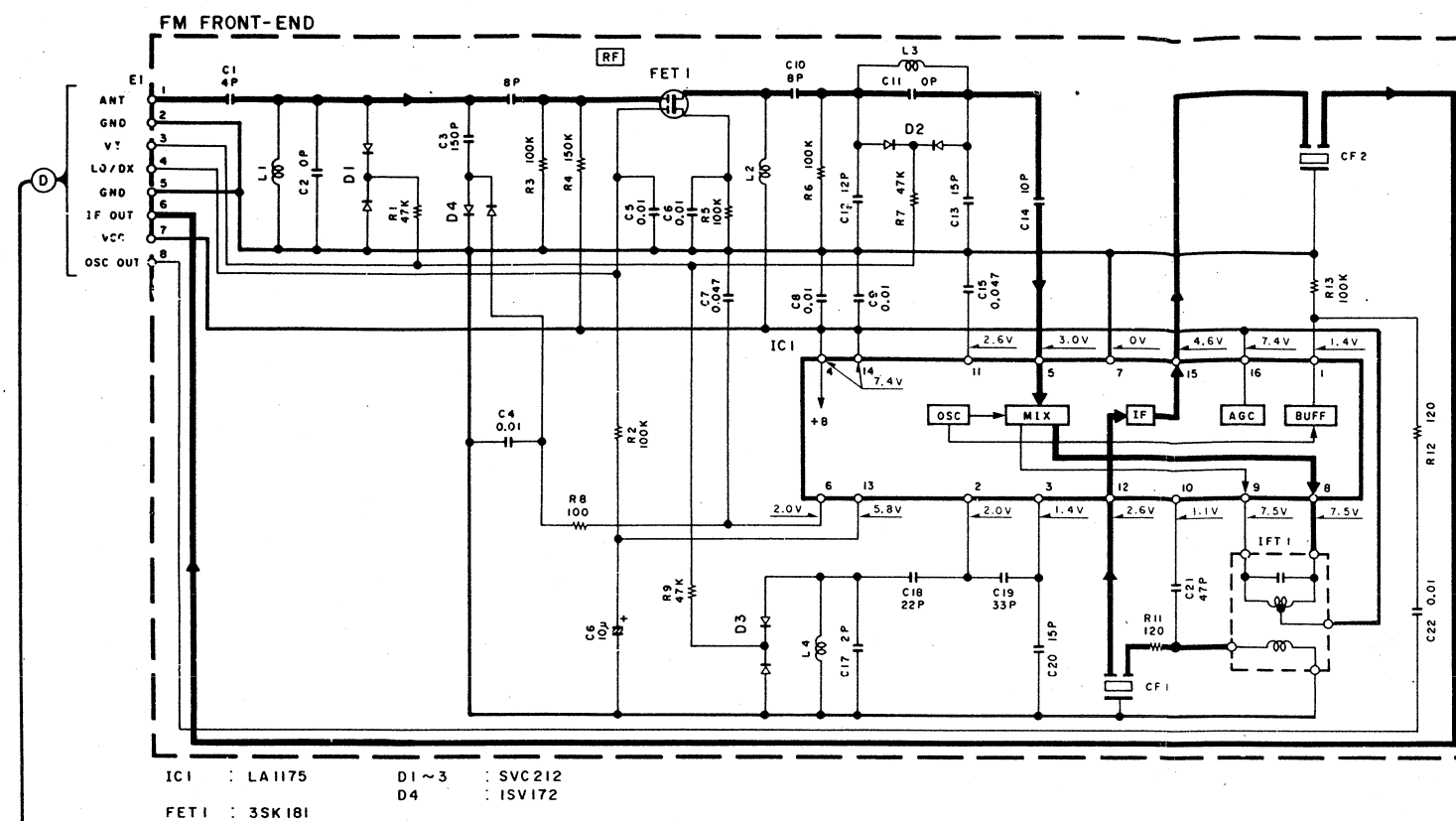
Ref. No.	Q	Address
IC	Q	
503		

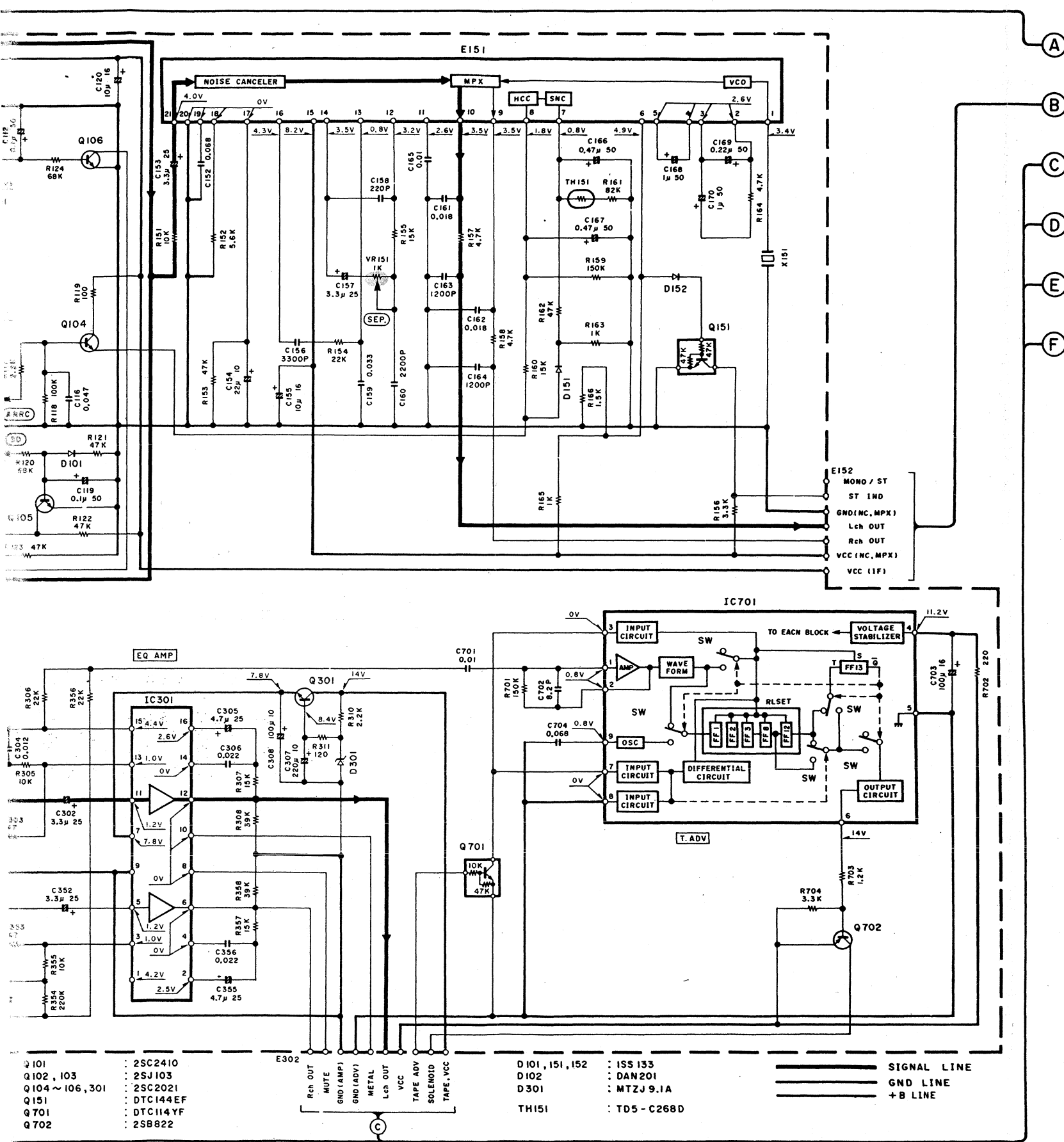
MAIN UNIT

Ref. No.	Q	Address
IC	Q	
251		6BR
252		7BT
311		2BP
401		1BP
402		1BP
403		4BQ
404		4BQ
405		4BQ
406		4BR
407		6BT
501		2BT
502		1BS
503		3BP
504		3BP
551		2BT
552		1BS
801		4BR
802		2BQ
803		2BQ
806		4BQ
807		3BQ
808		4BQ
809		3BQ
810		4BQ
501		
502		6BP
801		5BR
802		3BT
803		3BQ

FM IF/NC/MPX, TAPE EQ/T.ADV UNIT

Ref. No.	Q	Address
IC	Q	
101		6BK
102		6BL
103		6BK
104		6BL
105		7BL
106		6BL
151		6BJ
152		6BJ
301		7BM
701		6BM
702		6BM
101		6BL
301		6BM
701		6BM



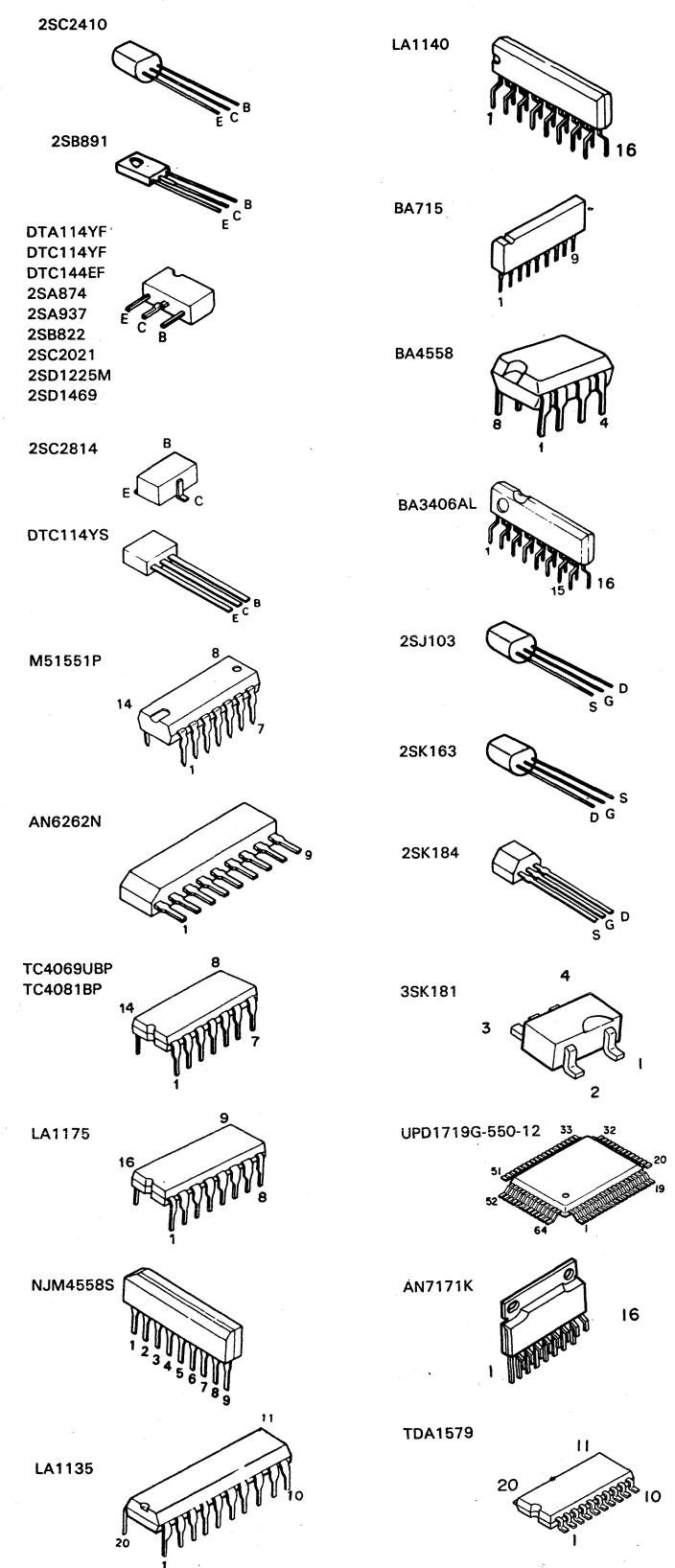


KRC-464D(E)(I/2)

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

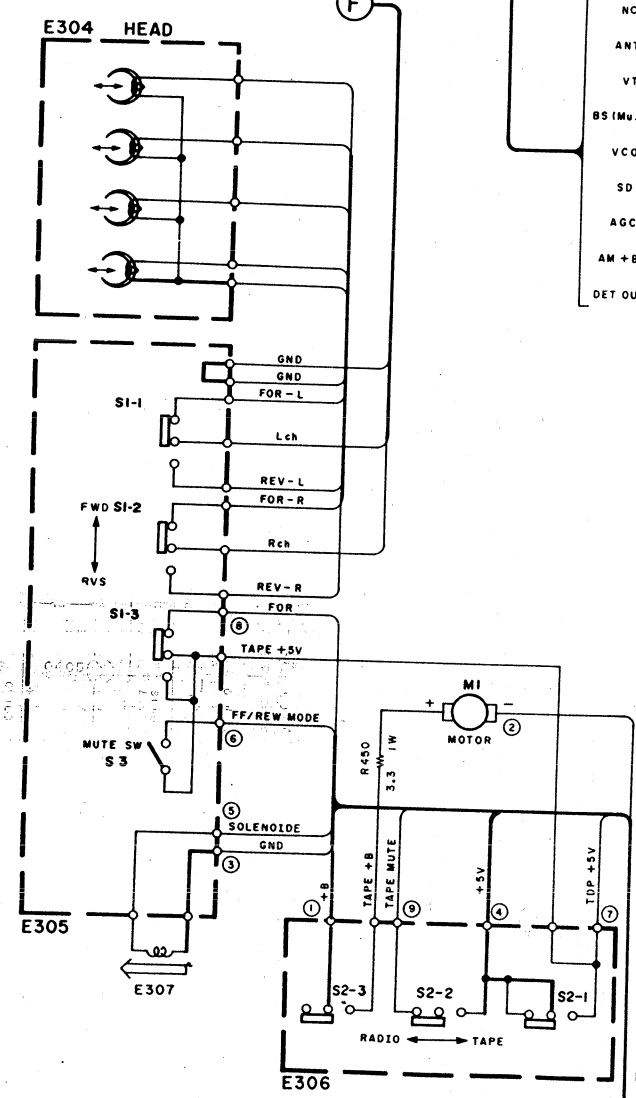
Les tensions c.c. doivent être mesurées avec un volt-mètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

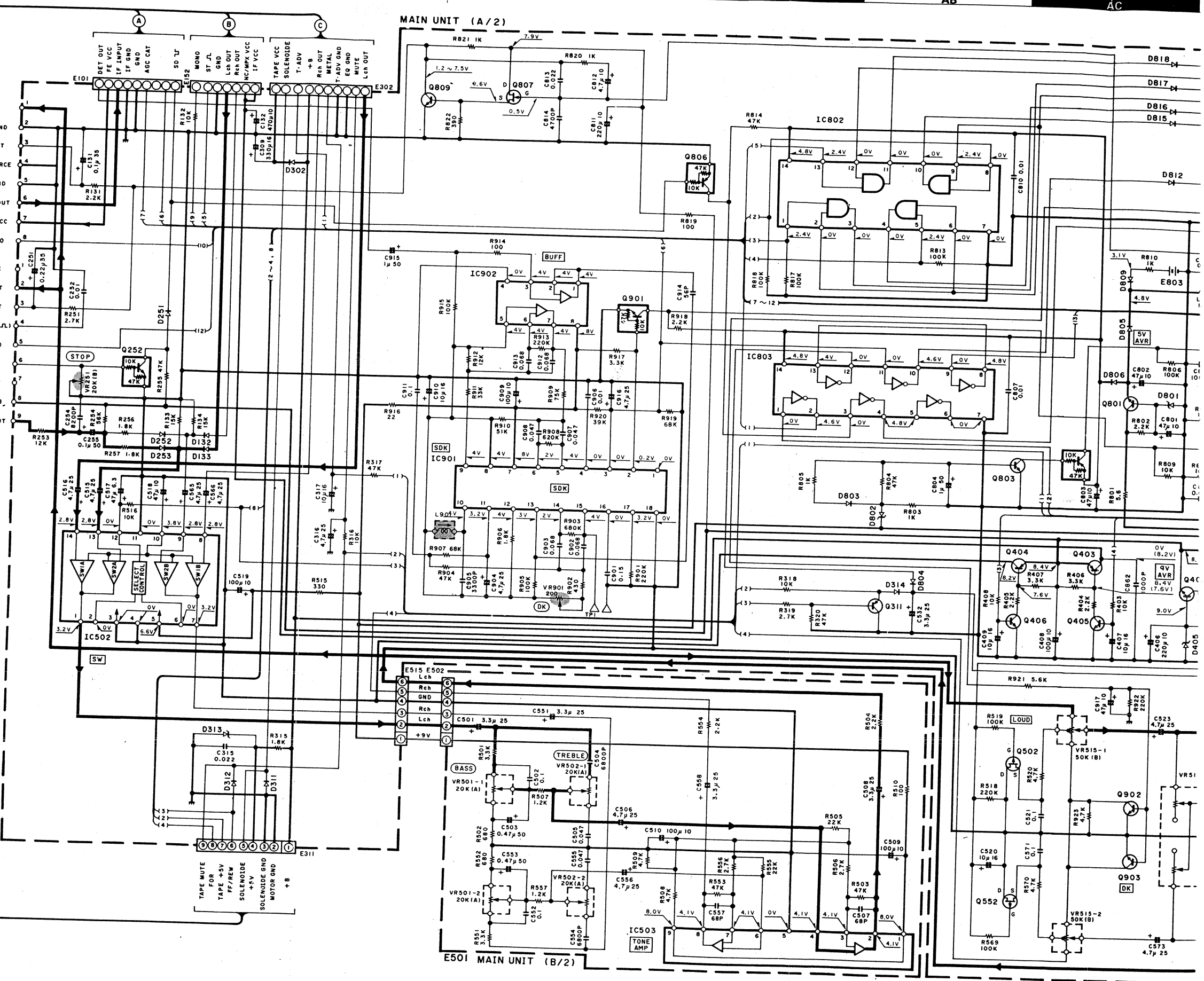


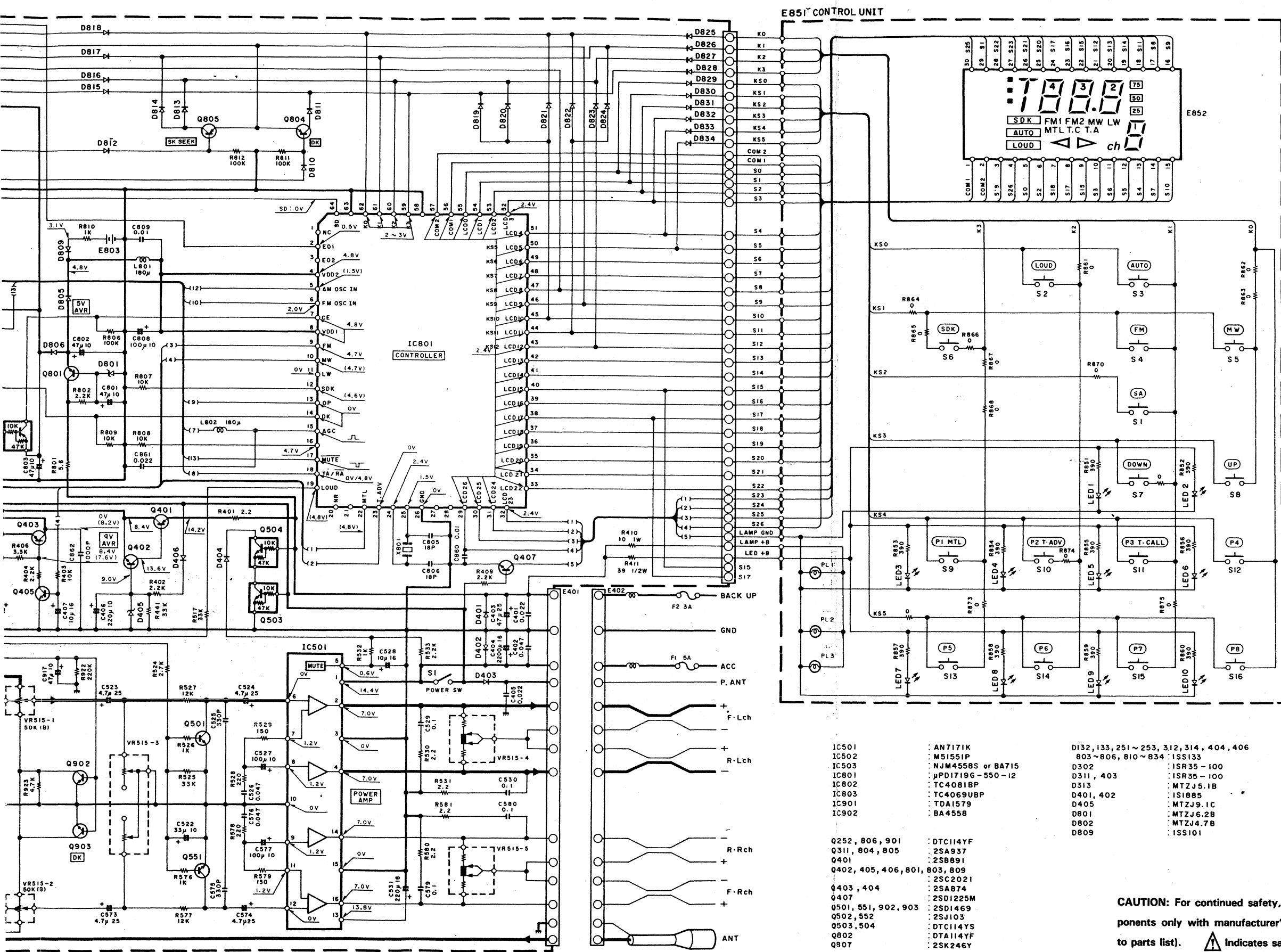
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y36-1102-70



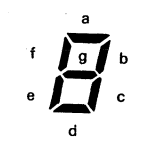
SIGNAL LINE
GND LINE
+B LINE





E852

No.	COM.1	COM.2
1	COM.1	
2		COM.2
3	MTL	FM2
4	FM1	FM2
5	MTL	LOUD
6	AUTO	
7	SDK	
8		
9		
10		
11	4c	4d
12	4g	4e
13	4b	4f
14		4a
15	3c	3d
16	3g	3e
17	3b	3f
18		3a
19	2c	2d
20	2g	2e
21	2b	2f
22		2a
23	50	25
24		75
25		
26	1b	1f
27	1c	1d
28	1g	1e
29	MW	LW
30	T.C	T.A



- IC501 : AN717IK
 IC502 : M5155IP
 IC503 : NJM4558S or BA715
 IC801 : μPD1719G-550-12
 IC802 : TC4081BP
 IC803 : TC4069UBP
 IC901 : TDA1579
 IC902 : BA4558
- Q252, 806, 901 : DTC114YF
 Q311, 804, 805 : 2SA937
 Q401 : 2SB891
 Q402, 405, 406, 801, 803, 809 : 2SC2021
 Q403, 404 : 2SA874
 Q407 : 2SD1225M
 Q501, 551, 902, 903 : 2SD1469
 Q502, 552 : 2SJ103
 Q503, 504 : DTC114YS
 Q802 : DTA114YF
 Q807 : 2SK246Y
- D132, 133, 251~253, 312, 314, 404, 406 : 803~806, 810~834 : ISS133
 D302 : ISR35-100
 D311, 403 : ISR35-100
 D313 : MTZJ5.1B
 D401, 402 : IS1885
 D405 : MTZJ9.1C
 D801 : MTZJ6.2B
 D802 : MTZJ4.7B
 D809 : ISS101

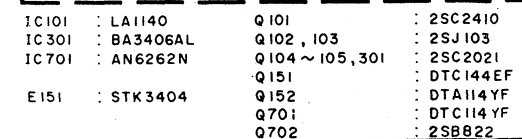
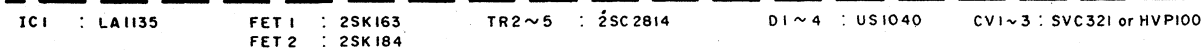
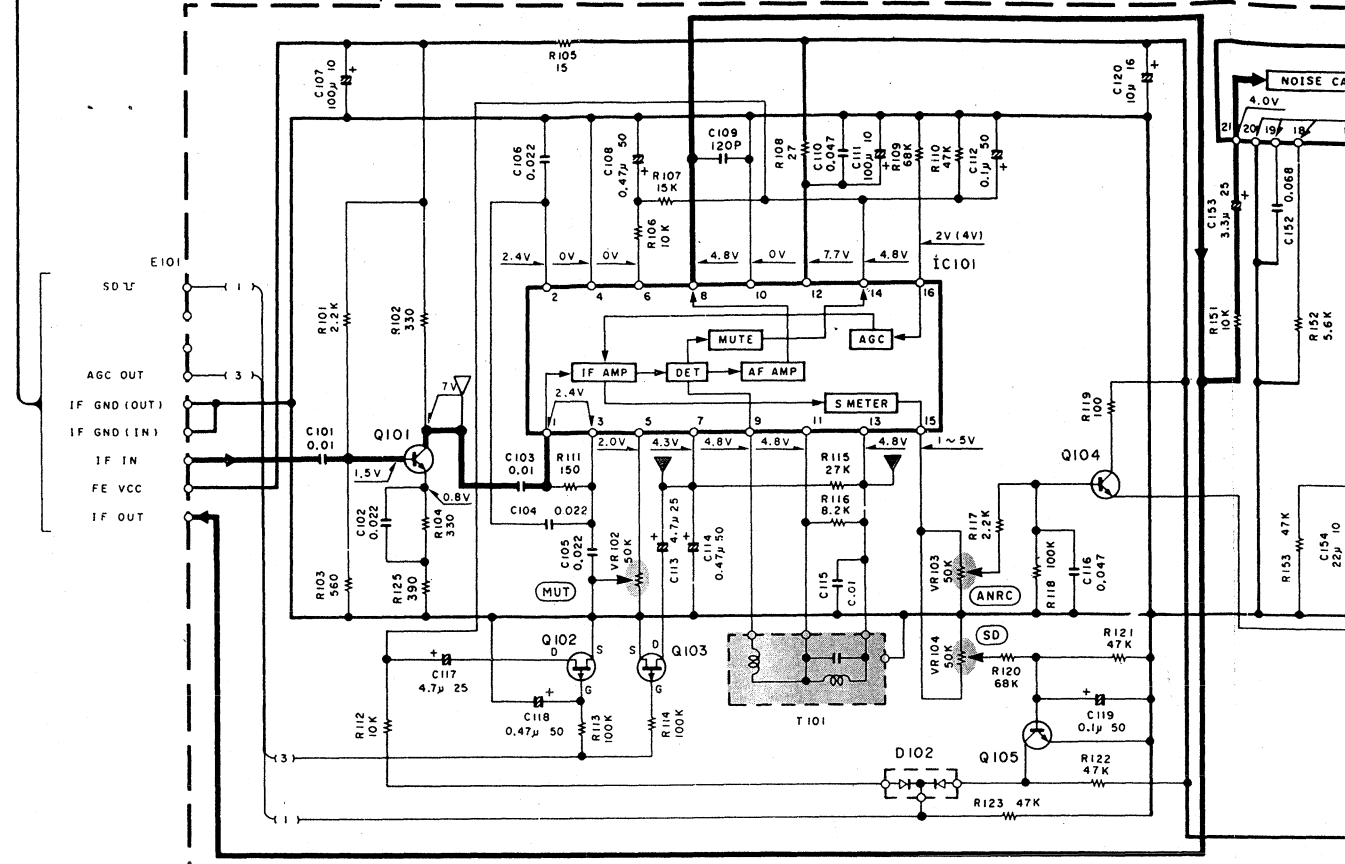
KRC-464D(E)(2/2)

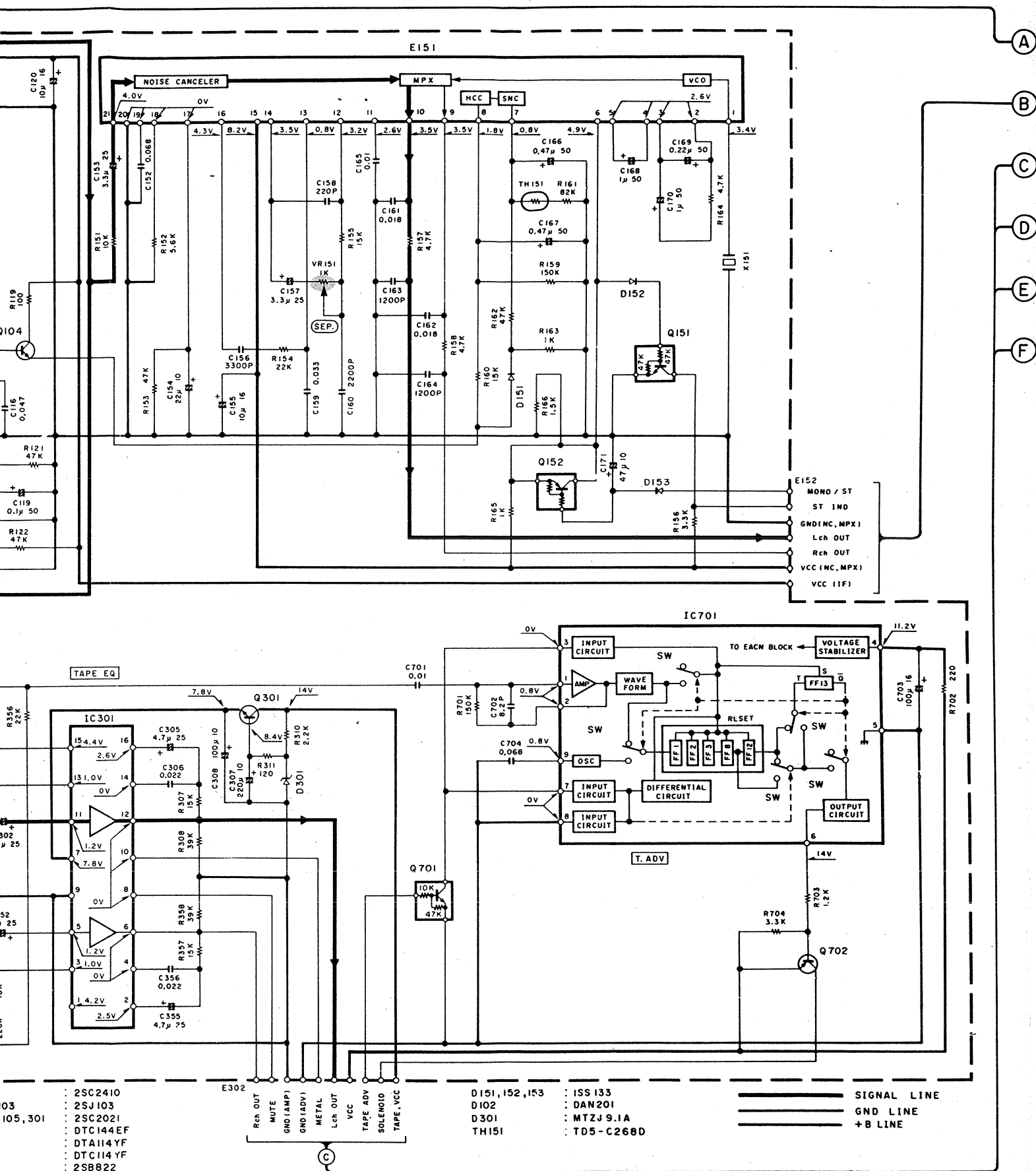
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

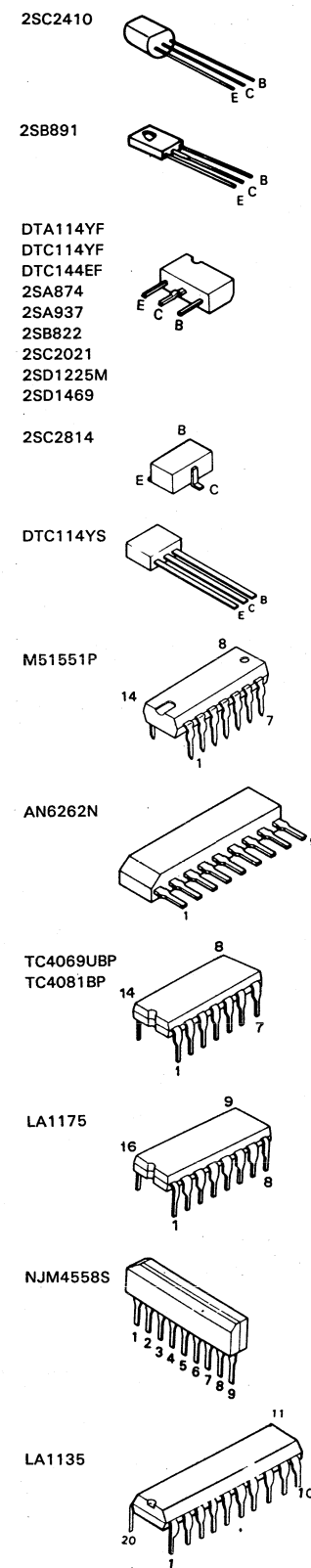
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.





KRC-464L(E)1/2



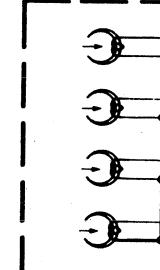
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y36-1102-71

KRC-464L

KENWOOD

E304 HEAD



SI-1

FOR - L

Lch

REV - L

FOR - R

Rch

REV - R

FOR

TAPE +5V

FF/REW MODE

MUTE SW S3

SOLENOID

GND

+5V

TAP +5V

TAP +5V

TAP +5V

TAP +5V

TAP +5V

TAP +5V

TAP +5V

TAP +5V

TAP +5V

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TAP +5V

TAP +5V

TAP +5V

TAP +5V

SIGNAL LINE
GND LINE
+B LINE

E306

E307

E308

E309

E310

E311

E312

E313

E314

E315

E316

E317

E318

E319

E320

E321

E322

E323

E324

E325

E326

E327

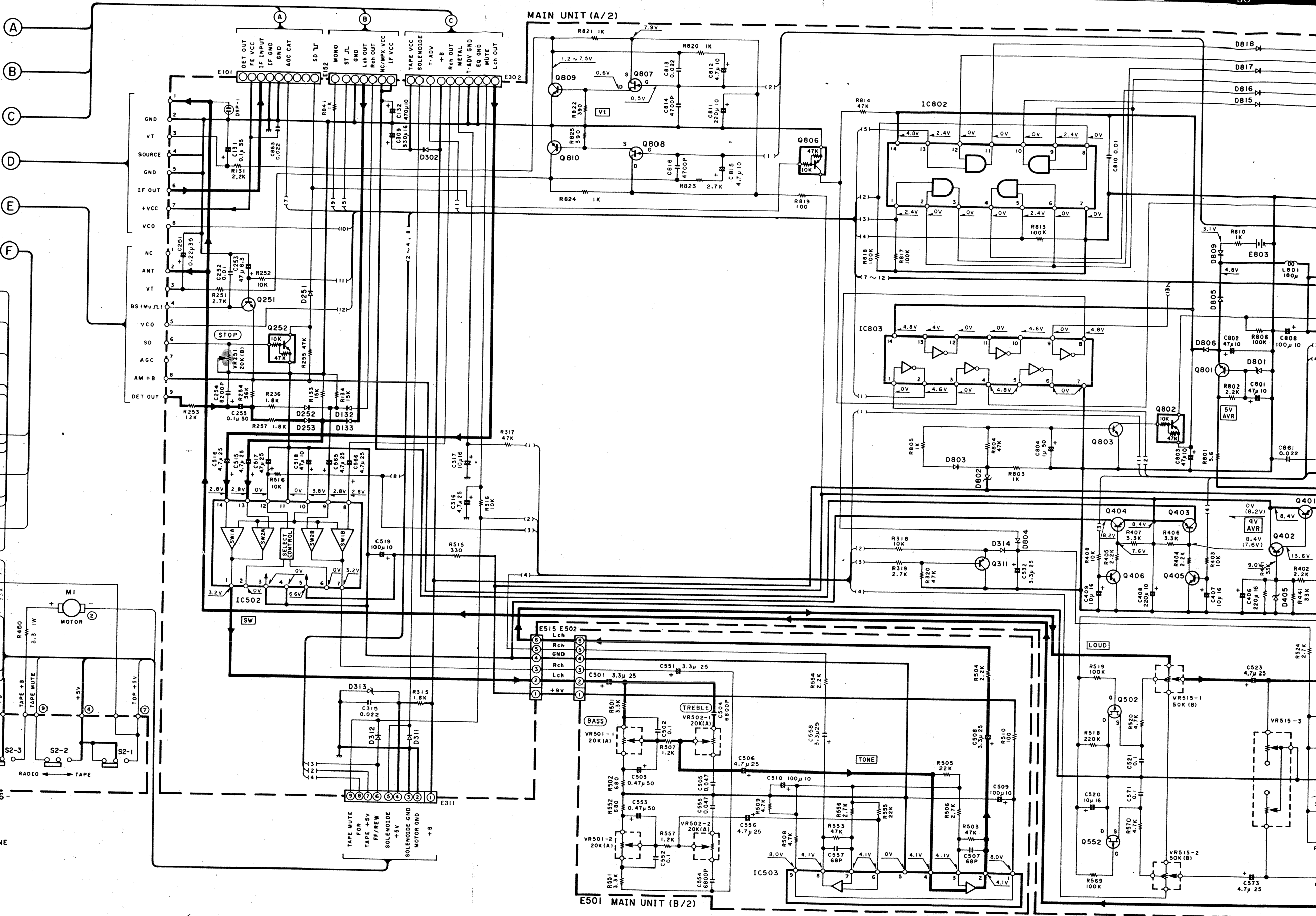
E328

E329

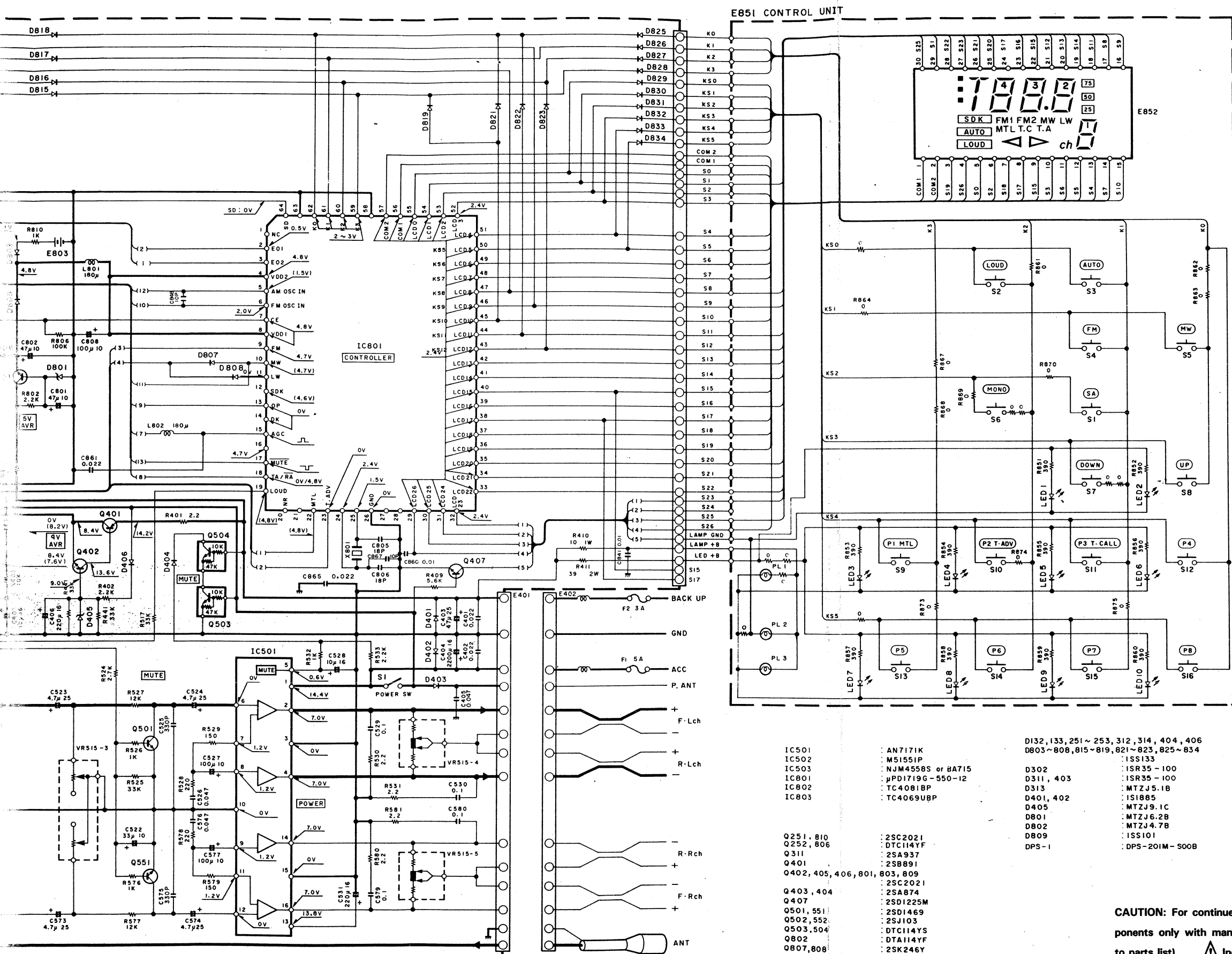
E330

E331

E332

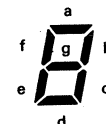


E501 MAIN UNIT (B/2)



E852

No.	COM.1	COM.2
1	COM.1	COM.2
2		
3	MTL	FM2
4	FM1	LOUD
5		
6	AUTO	
7		
8	SDK	
9		
10		
11	4c	4d
12	4g	4e
13	4b	4f
14		
15	3c	3d
16	3g	3e
17	3b	3f
18		
19	2c	2d
20	2g	2e
21	2b	2f
22		
23	5d	5e
24		
25	ch	1e
26	1b	1f
27	1c	1d
28	1g	1e
29	MW	LW
30	T.C	T.A



IC501 : AN7171K
 IC502 : MS1551P
 IC503 : NJM4558S or BA715
 IC801 : μ PD1719G-550-12
 IC802 : TC4081BP
 IC803 : TC4069UBP

Q251, 810 : 2SC2021
 Q252, 806 : DTC114YF
 Q311 : 2SA937
 Q401 : 2SB891
 Q402, 405, 406, 801, 803, 809 : 2SC2021
 Q403, 404 : 2SA874
 Q407 : 2SD1225M
 Q501, 551 : 2SD1469
 Q502, 552 : 2SJ103
 Q503, 504 : DTC114YS
 Q802 : DTA114YF
 Q807, 808 : 2SK246Y

D132, 133, 251 ~ 253, 312, 314, 404, 406 : ISS133
 D803 ~ 808, 815 ~ 819, 821 ~ 823, 825 ~ 834 : ISR35-100
 D302 : ISR35-100
 D311, 403 : MTZJ5.1B
 D313 : IS1885
 D401, 402 : MTZJ9.1C
 D405 : MTZJ6.2B
 D801 : MTZJ4.7B
 D802 : MTZJ4.7B
 D809 : ISS101
 DPS-1 : DPS-201M-S00B

KRC-464L(E)(2/2)

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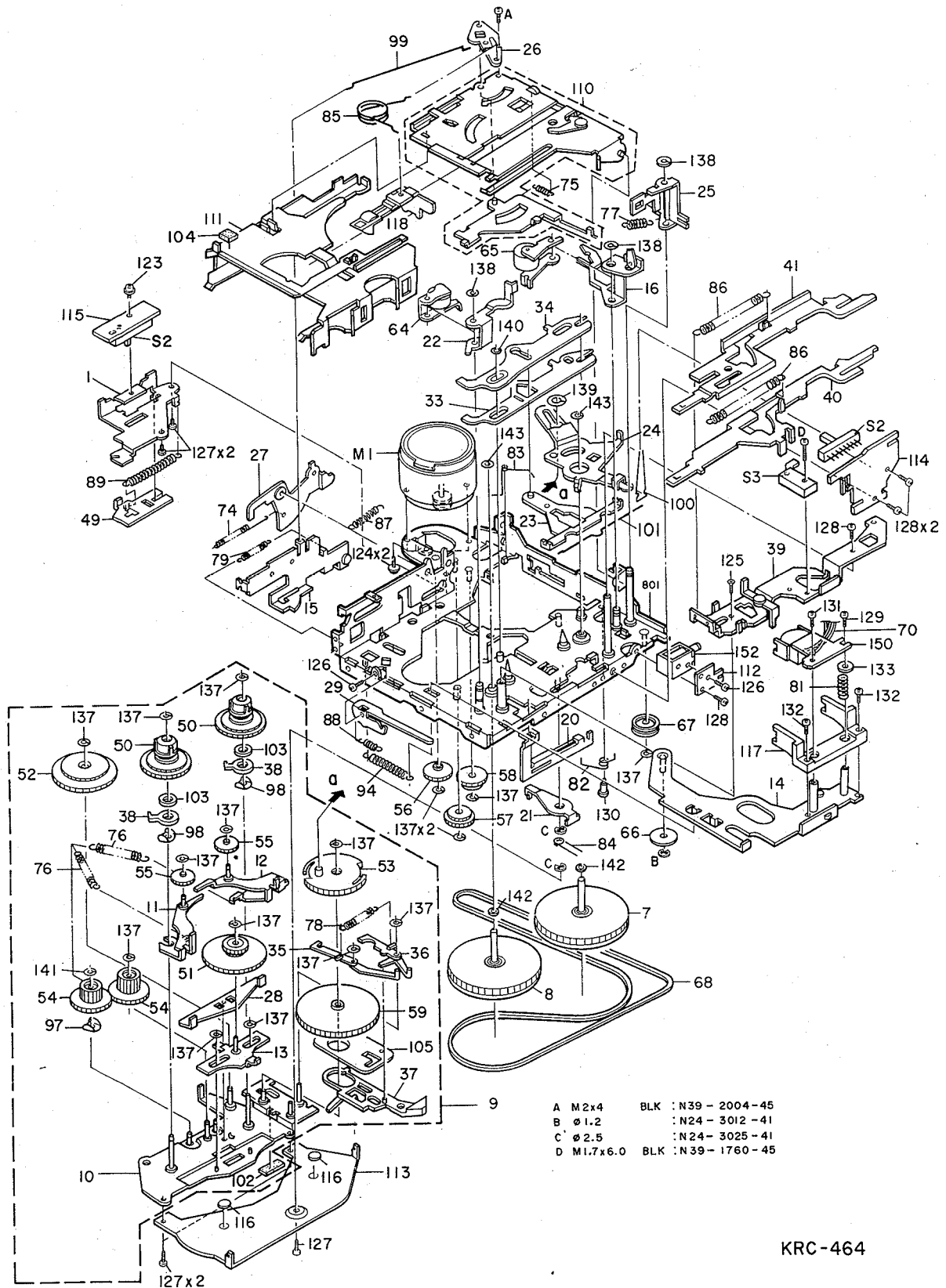
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

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KRC-464D/L

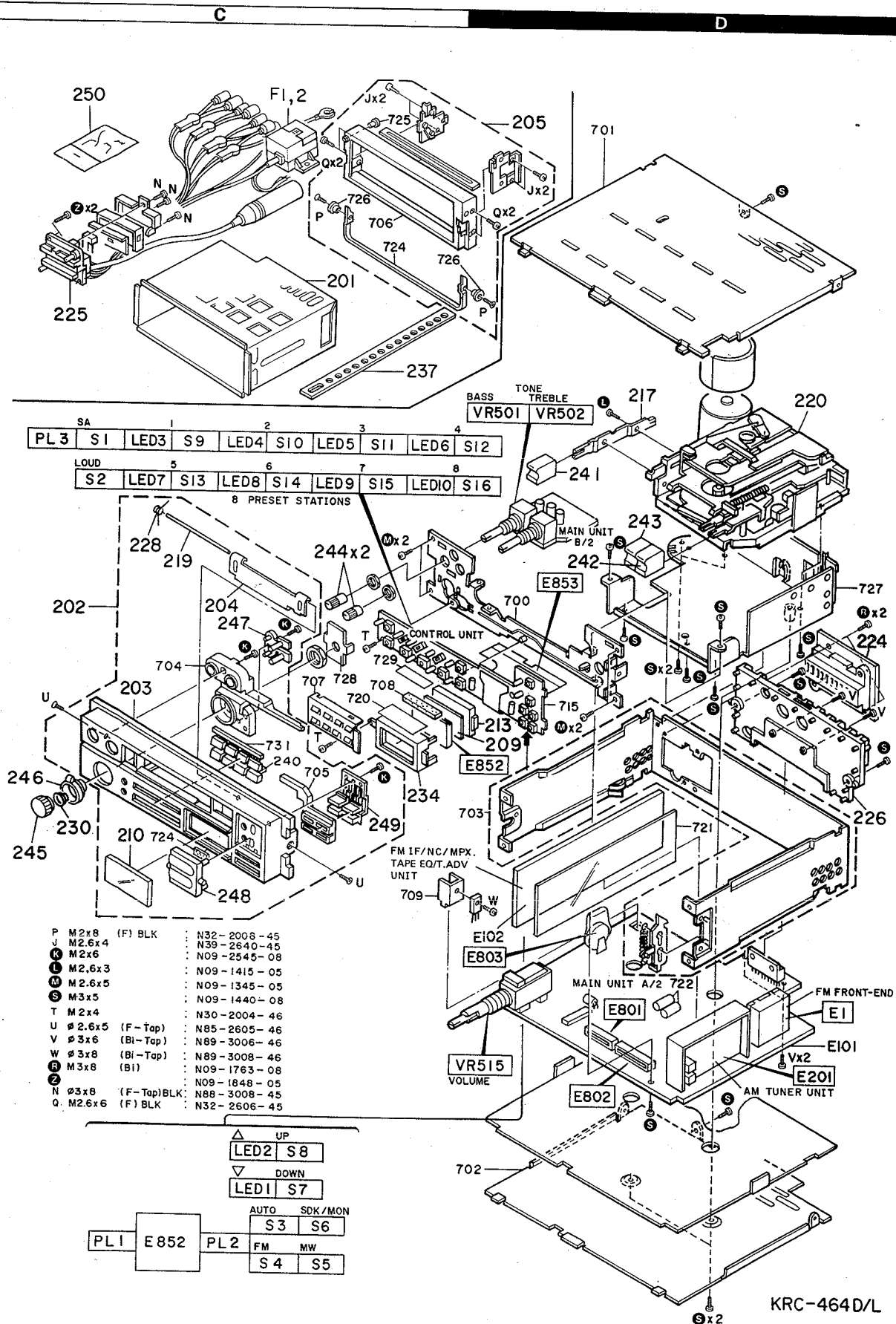
EXPLODED VIEW (MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied. 65

KRC-464D/L

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KRC-464D/L						
201	1C		A01-1563-21	METALLIC CABINET		
202	2C	*	A20-5712-08	PANEL ASSY		D
202	2C	*	A20-5713-08	PANEL ASSY		L
203	2C	*	A20-5714-08	PANEL ASSY		D
203	2C	*	A20-5715-08	PANEL ASSY		L
204	2C	*	A53-1079-08	CASSETTE HOLDER		
205	1D		B07-1751-43	ESCUTCHEON ASSY		
209	2D		B11-0187-08	FILTER		
210	2C	*	B12-0116-08	INDICATOR ASSY		D
210	2C	*	B12-0117-08	INDICATOR ASSY		L
213	2D		B19-0562-08	LIGHTING BOARD		
-		*	B44-2162-04	BADGE		
-		*	B44-2165-04	BADGE		
-			B46-0100-10	WARRANTY CARD		
-		*	B50-9270-00	INSTRUCTION MANUAL		
-			B58-0803-13	CAUTION CARD		D
-		*	B58-0889-04	CAUTION CARD		
217	1D		D10-2156-08	LEVER (EJECT)		
219	2C		D21-1451-08	EXTENSION SHAFT		
220	1D	*	D40-0856-08	CASSETTE MECHANISM ASSY		
224	2D	*	E30-2493-05	CONNECTOR ASSY (26P)		L
225	1C		E30-2403-05	OUTPUT CORD ASSY (26P)		
E152		*	1730737	CONNECTOR (3P)		
E301		*	1740765	PIN HEADER (7P)		L
E302		*	1730740	CONNECTOR (10P)		
E801	3D	*	E10-1816-08	CONNECTOR		
E802	3D	*	E10-2607-08	CONNECTOR		
226	2D	*	F01-1268-08	HEAT SINK		
F1			F06-5024-05	FUSE (5A) ACC		
F2			F06-3026-05	FUSE (3A) BACK UP		
228	2C		G01-2234-08	TORSION SPRING		
230	2C		G09-0079-08	SPRING		
-		*	H01-8351-08	ITEM CARTON BOX		D
-		*	H01-8352-08	ITEM CARTON BOX		L
-		*	H03-1450-08	OUTER PACKING CASE		D
-		*	H03-1451-08	OUTER PACKING CASE		L
-		*	H10-3747-08	POLYSTYRENE FOAMED FIXTURE		
-			H25-0329-04	PROTECTION BAG		
-			H25-0336-04	PROTECTION BAG		
234	2C	*	J61-0074-05	WIRE BAND		D
237	1C		J19-3138-08	LCD HOLDER		
			J54-0059-04	STAY		
240	2C		K29-3232-08	KNOB ASSY 8 PRESET STATIONS		
241	2D		K27-1906-08	KNOB(BUTTON) EJECT		
242	2D		K27-1907-08	KNOB(BUTTON) FF		
243	2D		K27-1908-08	KNOB(BUTTON) REW		
244	2C		K29-3227-08	KNOB ASSY BASS, TREBLE		
245	2C		K29-3228-08	KNOB ASSY VOL		
246	2C		K29-3229-08	KNOB ASSY FADER		
247	2C		K29-3230-08	KNOB ASSY LOUD, A.M.E		

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△ indicates safety critical components.

KRC-464D/L

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
248	2C		K29-3233-08	KNØB ASSY UP/DØWN		
249	2C		K29-3234-08	KNØB ASSY FM/AM		
250			N99-0277-05	SCREW SET		L
K	2C		N09-2545-08	SCREW		
L	1D		N09-1415-05	SCREW		
M	2C, 2D		N09-1345-05	SCREW		
S	2D		N09-1440-08	SCREW		
X	2D		N09-1763-08	SCREW		
Z	1C		N09-1848-05	SCREW		L
R450			RS14DB3A3R3J	FL-PRØØF RS 3.3 J 1W		
E1	3D	*	W02-0977-08	FM FRØNT END UNIT		
E101	3D	*	W02-0980-08	MAIN UNIT		D
E101	3D	*	W02-0981-08	MAIN UNIT		L
E102	2D	*	W02-0982-08	FM IF/NC/MPX, TAPE EQ/T. AD UNIT		D
E102	2D	*	W02-0983-08	FM IF/NC/MPX, TAPE EQ/T. AD UNIT		L
E201	3D	*	W02-0978-08	AM TUNER UNIT		D
E201	3D	*	W02-0979-08	AM TUNER UNIT		L
E803		*	W09-0046-05	BATTERY PACK/BATTERY CHARGER		
FM FRØNT END UNIT (W02-0977-08)						
D1 -3			SVC212	DIØDE		
D4			1SV172	DIØDE		
FET1			3SK181	FET		
IC1			LA1175	IC(FM IF)		
AM TUNER UNIT (D: W02-0978-08, L: W02-0979-08)						
CV1 -3			HVP100	DIØDE		
CV1 -3			SVC321	DIØDE		
D1 -4			US1040	DIØDE		L
FET1			2SK163	FET		
FET2			2SK184	FET		
IC1			LA1135	IC(AM)		
TR2 ,3			2SC2814	TRANSISTØR		
TR4 ,5			2SC2814	TRANSISTØR		L
MAIN UNIT (D: W02-0980-08, L: W02-0981-08)						
C131			CS15E1VØR1K	TANTAL 0.1UF 35WV		
C132			CE04DW1A471M	ELECTRØ 470UF 10WV		
C251		*	CE04CW1VR22M	ELECTRØ 0.22UF 35WV		
C252			C91-0769-05	CERAMIC 0.01UF M		
C253			CE04CWOJ470M	ELECTRØ 47UF 6.3WV		L
C254			C91-0768-05	CERAMIC 8200PF M		
C255			CE04CW1HØR1M	ELECTRØ 0.1UF 50WV		
C309			CE04DW1C331M	ELECTRØ 330UF 16WV		
C315			C91-0929-08	CERAMIC 0.022UF M		
C316			CE04KW1E4R7M	ELECTRØ 4.7UF 25WV		
C317			C90-0478-05	ELECTRØ 10UF 16WV		
C401			CK45FF1H223Z	CERAMIC 0.022UF Z		
C402			CK45FF1H223Z	CERAMIC 0.022UF Z		L
C402			CK45FF1H473Z	CERAMIC 0.047UF Z		D
C403			CE04DW1E470M	ELECTRØ 47UF 25WV		
C404			C90-1404-05	ELECTRØ 2200UF 16WV		
C405			CK45FF1H223Z	CERAMIC 0.022UF Z		D
C405			CK45FF1H473Z	CERAMIC 0.047UF Z		L
C406			CE04KW1A221M	ELECTRØ 220UF 10WV		D
C406			CE04KW1C221M	ELECTRØ 220UF 16WV		L

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C407			CE04DW1C100M	ELECTR0 10UF 16WV		
C408			CE04DW1A101M	ELECTR0 100UF 10WV		D
C408			CE04DW1A221M	ELECTR0 220UF 10WV		L
C409			CE04CW1C100M	ELECTR0 10UF 16WV		
C501			CE04KW1E3R3M	ELECTR0 3.3UF 25WV		
C502			CF92V1H104J	MF 0.10UF J		
C503			CE04KW1HR47M	ELECTR0 0.47UF 50WV		
C504			C91-0767-05	CERAMIC 6800PF M		
C505			CF92V1H473J	MF 0.047UF J		
C506			CE04KW1E4R7M	ELECTR0 4.7UF 25WV		
C507			C91-0741-05	CERAMIC 68PF J		
C508			CE04KW1E3R3M	ELECTR0 3.3UF 25WV		
C509, 510			CE04KW1A101M	ELECTR0 100UF 10WV		
C515, 516			CE04CW1E4R7M	ELECTR0 4.7UF 25WV		
C517			CE04CW0J470M	ELECTR0 47UF 6.3WV		D
C517			CE04CW1E4R7M	ELECTR0 4.7UF 25WV		L
C518			CE04CW1A470M	ELECTR0 47UF 10WV		
C519			CE04KW1A101M	ELECTR0 100UF 10WV		
C520			CE04KW1C100M	ELECTR0 10UF 16WV		
C521			CF92FV1H104J	MF 0.10UF J		
C522			CE04CW1A330M	ELECTR0 33UF 10WV		
C523			CE04CW1E4R7M	ELECTR0 4.7UF 25WV		
C524			CE04KW1E4R7M	ELECTR0 4.7UF 25WV		
C525			C91-0751-05	CERAMIC 330PF K		
C526			C91-0692-05	CERAMIC 0.047UF K		
C527			CE04KW1A101M	ELECTR0 100UF 10WV		
C528			CE04KW1C100M	ELECTR0 10UF 16WV		
C529, 530			CF92FV1H104J	MF 0.10UF J		
C531			CE04KW1C221M	ELECTR0 220UF 16WV		
C551			CE04KW1E3R3M	ELECTR0 3.3UF 25WV		
C552			CF92V1H104J	MF 0.10UF J		
C553			CE04KW1HR47M	ELECTR0 0.47UF 50WV		
C554			C91-0767-05	CERAMIC 6800PF M		
C555			CF92V1H473J	MF 0.047UF J		
C556			CE04KW1E4R7M	ELECTR0 4.7UF 25WV		
C557			C91-0741-05	CERAMIC 68PF J		
C558			CE04KW1E3R3M	ELECTR0 3.3UF 25WV		
C565, 566			CE04CW1E4R7M	ELECTR0 4.7UF 25WV		
C571			CF92FV1H104J	MF 0.10UF J		
C573			CE04CW1E4R7M	ELECTR0 4.7UF 25WV		
C573			CE04CW1E4R7M	ELECTR0 4.7UF 25WV		
C574			CE04DW1E4R7M	ELECTR0 4.7UF 25WV		
C575			C91-0751-05	CERAMIC 330PF K		
C576			C91-0692-05	CERAMIC 0.047UF K		
C577			CE04KW1A101M	ELECTR0 100UF 10WV		
C579, 580			CF92FV1H104J	MF 0.10UF J		
C801			CE04DW1A470M	ELECTR0 47UF 10WV		
C802			CE04CW1A470M	ELECTR0 47UF 10WV		
C803			C90-0480-05	ELECTR0 47UF 10WV		
C804			CE04CW1H010M	ELECTR0 1.0UF 50WV		
C805, 806			C91-1241-05	CERAMIC 18PF J		
C807			C91-0769-05	CERAMIC 0.01UF M		D
C808		*	C90-1503-05	ELECTR0 100UF 10WV		
C809			C91-0769-05	CERAMIC 0.01UF M		D
C810			C91-0769-05	CERAMIC 0.01UF M		

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KRC-464D/L

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C811			CE04DW1A221M	ELECTRO 220UF 10WV		
C812			CS15E1A4R7K	TANTAL 4.7UF 10WV		
C813			C91-0929-08	CERAMIC 0.022UF M		
C814			C91-0765-05	CERAMIC 4700PF M		
C815			CS15E1A4R7K	TANTAL 4.7UF 10WV		L
C816			C91-0765-05	CERAMIC 4700PF M		L
C841			C91-0769-05	CERAMIC 0.01UF M		L
C848			CC45SL1H100J	CERAMIC 10PF J		L
C860			C91-0769-05	CERAMIC 0.01UF M		
C861			C91-0929-08	CERAMIC 0.022UF M		
C862		*	C91-1402-08	CERAMIC 1000PF K		D
C863			C91-0929-08	CERAMIC 0.022UF M		L
C865			C91-0683-05	CERAMIC 0.022UF K		L
C867			C91-1235-05	CERAMIC 10PF J		L
C901			CF92V1H154J	MF 0.15UF J		D
C902,903			CF92V1H683J	MF 0.068UF J		D
C904			C90-0482-05	ELECTRO 4.7UF 25WV		D
C905		*	CC93P1H332J	MYLAR 3300PF J		D
C906			CF92V1H103J	MF 0.010UF J		D
C907,908			CF92V1H473J	MF 0.047UF J		D
C909			C90-1501-08	ELECTRO 100UF 10WV		D
C910			C90-0478-05	ELECTRO 10UF 16WV		D
C911			CF92V1H104J	MF 0.10UF J		D
C912,913			CF92V1H683J	MF 0.068UF J		D
C914			C91-0739-05	CERAMIC 56PF J		D
C915			CE04CW1H010M	ELECTRO 1.0UF 50WV		D
C916			CE04CW1E4R7M	ELECTRO 4.7UF 25WV		D
C917			CE04CW1A470M	ELECTRO 47UF 10WV		D
132,133			1SS133	DIODE		
E401		*	E30-2493-05	AC POWER CORD,AUDIO CORD		
L801,802		*	L40-1811-17	SMALL FIXED INDUCTOR (180UH)		
L901			L39-0153-08	COIL		D
X801			L77-0573-05	CRYSTAL RESONATOR		
R410			RS14DB3A100J	FL-PROOF RS 10 J 1W		
R411		*	RS14DB2H390J	FL-PROOF RS 39 J 1/2W		D
R411			RS14DB3D390J	FL-PROOF RS 39 J 2W		L
VR251			R12-3450-05	POTENTIOMETER 20K(B) STOP		
VR501,502			R10-3032-08	POTENTIOMETER 20K(A)X2 BAS,TRE		
VR515	3D		R29-0003-08	POTENTIOMETER 50K(B)		
VR901			R12-5074-08	POTENTIOMETER 200 DK		D
S1			R29-0003-08	POTENTIOMETER (POWER SW)		
D132,133			1SS133	DIODE		
D251-253			1SS133	DIODE		
D302			1SR35-100	DIODE		
D311			1SR35-100	DIODE		
D312			1SS133	DIODE		
D313		*	MTZJ5.1B	ZENER DIODE		
D314			1SS133	DIODE		
D401,402			1S1885	DIODE		
D403			1SR35-100	DIODE		
D404			1SS133	DIODE		

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D405 D406 D801 D802 D803-806		*	MTZJ9. 1C 1SS133 MTZJ6. 2B MTZJ4. 7B 1SS133	ZENER DIODE DIODE ZENER DIODE ZENER DIODE DIODE		
D809 D810-814 D815-819 D820 D821-823			1SS101 1SS133 1SS133 1SS133 1SS133	DIODE DIODE DIODE DIODE DIODE		D D D
D824 D825-834 DSP-1 IC501 IC502		*	1SS133 1SS133 DSP-201M-S00B AN7171K MS1551P	DIODE DIODE DIODE IC(AUDIO POWER AMP) IC(DUAL 2-MODE SWITCH)		L
IC503 IC503 IC801 IC802 IC803		*	BA715 NJM4558S UPD1719G-550-12 TC4081BP TC4069UBP	IC(OP AMP X2) IC(OP AMP X2)R AMP) IC(FREQ SYNTHESIZER PLL,CONT) IC(AND X4) IC(INVERTER X6)		D D L
IC901 IC902 Q251 Q252 Q311			TDA1579 BA4558 2SC2021 DTC114YF 2SA937	IC(DECODER) IC(OP AMPX2) TRANSISTOR TRANSISTOR TRANSISTOR		D D L
Q401 Q402 Q403,404 Q405,406 Q407			2SB891 2SC2021 2SA874 2SC2021 2SD1225M	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q501 Q502 Q503,504 Q551 Q552			2SD1469 2SJ103 DTC114YS 2SD1469 2SJ103	TRANSISTOR FET TRANSISTOR TRANSISTOR FET		
Q801 Q802 Q803 Q804,805 Q806			2SC2021 DTA114YF 2SC2021 2SA937 DTC114YF	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		D
Q807 Q808 Q809 Q810 Q901		*	2SK246Y 2SK246Y 2SC2021 2SC2021 DTC114YF	FET FET TRANSISTOR TRANSISTOR TRANSISTOR		L L D
Q902,903			2SD1469	TRANSISTOR		D
E803 E803	3D 3D		W09-0046-05 W09-0088-05	BATTERY BATTERY		L
FM IF/NC/MPX, TAPE EQ/T.ADV UNIT (D: W02-0982-08, L: W02-0983-08)						
C101 C102 C103 C104 C105,106			C91-0769-05 C91-0683-05 C91-0769-05 C91-0683-05 C91-0929-08	CERAMIC 0.01UF M CERAMIC 0.022UF K CERAMIC 0.01UF M CERAMIC 0.022UF K CERAMIC 0.022UF M		

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C107			C90-1503-08	ELECTR0 100UF 10WV		
C108			CE04KW1HR47M	ELECTR0 0.47UF 50WV		
C109			C91-0746-05	CERAMIC 120PF K		
C110			C91-0691-05	CERAMIC 0.047UF K		
C111			C90-1503-08	ELECTR0 100UF 10WV		
C112			CE04JW1HOR1M	ELECTR0 0.1UF 50WV		
C113		*	CE04JW1E4R7M	ELECTR0 4.7UF 25WV		
C114			CE04KW1HR47M	ELECTR0 0.47UF 50WV		
C115			C91-0769-05	CERAMIC 0.01UF M		
C115			C91-0929-08	CERAMIC 0.022UF M		
C116			C91-0691-05	CERAMIC 0.047UF K		
C117		*	CE04JW1E4R7M	ELECTR0 4.7UF 25WV		
C118			CE04KW1HR47M	ELECTR0 0.47UF 50WV		
C119			CE04JW1HOR1M	ELECTR0 0.1UF 50WV		
C120			CE04CW1C100M	ELECTR0 10UF 16WV		
C152			C91-0695-05	CERAMIC 0.068UF K		
C153			CE04JW1E3R3M	ELECTR0 3.3UF 25WV		
C154		*	CE04JW1A220M	ELECTR0 22UF 10WV		
C155			CE04JW1C100M	ELECTR0 10UF 16WV		
C156			C91-0663-05	CERAMIC 3300PF K		
C157			CE04JW1E3R3M	ELECTR0 3.3UF 25WV		
C158			CK45B1H221K	CERAMIC 220PF K		
C159			C91-0687-05	CERAMIC 0.033UF K		
C160			CF92V1H222J	MF 2200PF J		
C161,162			CF92V1H183J	MF 0.018UF J		
C163,164			CF92V1H122J	MF 1200PF J		
C165			CF92V1H103J	MF 0.010UF J		
C166,167			CE04KW1HR47M	ELECTR0 0.47UF 50WV		
C168			CE04JW1H010M	ELECTR0 1.0UF 50WV		
C169		*	CE04JW1HR22M	ELECTR0 0.22UF 50WV		
C170			CE04JW1H010M	ELECTR0 1.0UF 50WV		
C301			C91-0757-05	CERAMIC 1000PF K		
C302			CE04JW1E3R3M	ELECTR0 3.3UF 25WV		
C303			C90-1503-08	ELECTR0 100UF 10WV		
C304			CF92V1H123J	MF 0.012UF J		
C305		*	CE04JW1E4R7M	ELECTR0 4.7UF 25WV		
C306			CF92V1H223J	MF 0.022UF J		
C307			C90-1409-05	ELECTR0 220UF 10WV		
C308			C90-1501-08	ELECTR0 100UF 10WV		
C351			C91-0757-05	CERAMIC 1000PF K		
C352			CE04JW1E3R3M	ELECTR0 3.3UF 25WV		
C353			C90-1503-08	ELECTR0 100UF 10WV		
C354			CF92V1H123J	MF 0.012UF J		
C355		*	CE04JW1E4R7M	ELECTR0 4.7UF 25WV		
C356			CF92V1H223J	MF 0.022UF J		
C701			C91-0769-05	CERAMIC 0.01UF M		
C702			C91-1234-05	CERAMIC 8.2PF K		
C703			C90-1502-08	ELECTR0 100UF 16WV		
C704			CF92V1H683J	MF 0.068UF J		
E301		*	1740765	PIN HEADER (7P)		
T101		*	L30-0478-08	IFT		
X151			L78-0208-05	RESONATOR		
VR102-104			R12-4417-05	POTENTIOMETER (50K) SD,ANRC		

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VR151			R12-1098-08	POTENTIOMETER (1K)		
D101			1SS133	DIODE		D
D102			DAN201	DIODE		
D151, 152			1SS133	DIODE		L
D153			1SS133	DIODE		
D301		*	MTZJ9. 1A	ZENER DIODE		
E151		*	STK3404	IC(NC-MPX MODULE)		
IC101			LA1140	IC(FM IF/DETECTION)		
IC301		*	BA3406AL	DIODE		
IC701			AN6262N	IC(T. ADV)		
Q101			2SC2410	TRANSISTOR		
Q102, 103			2SJ103	FET		
Q104, 105			2SC2021	TRANSISTOR		D
Q106			2SC2021	TRANSISTOR		
Q151			DTC144EF	TRANSISTOR		
Q301			2SC2021	TRANSISTOR		
Q701			DTC114YF	TRANSISTOR		
Q702			2SB822	TRANSISTOR		
TH151			TD5-C268D	THERMISTOR		
CONTROL UNIT (D: W02-0993-08, L: W02-0994-08)						
E852	3C		B38-0111-08	DISPLAY ASSY		L
LED1, 2	1C		B30-1227-08	LED		
LED3-10			B30-1228-08	LED		
PL1 -3			B30-1226-08	LAMP		
R851-860			R92-0679-05	CHIP R 0 OHM		
R870			RK73FB2A391J	CHIP R 390 J 1/10W		
			R92-0670-05	CHIP R 0 OHM		
S1 -8			S40-1123-08	PUSH SWITCH		
S9 -11			S40-1128-08	PUSH SWITCH		
S12 -16			S40-1123-08	PUSH SWITCH		
SCREW SET (N99-0277-05)						
-			J31-0256-15	COLLAR		
-			N09-0366-05	HEXAGON BOLT (M5X20)		
-			N14-0156-05	NUT (M5)		
CASSETTE MECHANISM ASS'Y (D40-0856-08)						
1	1A		D40-0814-08	SUB CHASSIS		
7	3B		D01-0099-08	FLYWHEEL ASSY (F)		
8	3B		D01-0100-08	FLYWHEEL ASSY (R)		
9	3B		D03-0267-08	REEL DISK ASSY		
10	3A		D03-0268-08	REEL DISK		
11	3A		D10-2117-08	SLIDER ASSY (A)		
12	2A		D10-2118-08	SLIDER ASSY (B)		
13	3A		D10-2119-08	LEVER ASSY (FR)		
14	2B		D10-2120-08	LEVER ASSY (HEAD PLATE)		
15	2A		D10-2121-08	LEVER ASSY (EJECT)		
16	1B		D10-2122-08	LEVER ASSY (INV)		
20	2B		D10-2123-08	LEVER (FR CAM)		
21	2B		D10-2124-08	LEVER (FR CAM)		
22	1A		D10-2125-08	LEVER (FR CAM)		
23	2B		D10-2126-08	ARM		
24	2B		D10-2127-08	ARM		

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25	1B		D10-2128-08	ARM (FR RELEASE)		
26	1B		D10-2130-08	LEVER (INV)		
27	2A		D10-2131-08	ARM (ACTION)		
28	3A		D10-2132-08	LEVER (SENSOR)		
29	2A		D10-2133-08	LEVER (LOCK PLATE)		
33	1A		D10-2134-08	LEVER		
34	1B		D10-2135-08	LEVER		
35	3A		D10-2136-08	ARM		
36	3A		D10-2137-08	ARM		
37	3A		D10-2138-08	LEVER (SENSOR)		
38	2A		D10-2139-08	LEVER (SENSOR)		
39	2B		D10-2140-08	LEVER ASSY (SINE PLATE)		
40	1B		D10-2141-08	LEVER (FR)		
41	1B		D10-2142-08	LEVER (FR)		
49	2A		D10-2129-08	LEVER		
50	2A		D13-0685-08	GEAR ASSY (REEL DISK)		
51	3A		D13-0686-08	GEAR ASSY (FR GEAR)		
52	2A		D13-0687-08	GEAR ASSY (TAKE UP)		
53	2A		D13-0688-08	GEAR ASSY (SWITCHING)		
54	3A		D13-0689-08	GEAR (TAKE UP)		
55	2A		D13-0690-08	GEAR (TAKE UP)		
56	2A		D13-0691-08	GEAR (IDLE)		
57	2A		D13-0692-08	GEAR (IDLE)		
58	2B		D13-0693-08	GEAR (IDLE)		
59	3A		D13-0694-08	GEAR (SWITCHING)		
64	1A		D14-0272-08	PINCH ROLLER (R)		
65	1B		D14-0273-08	PINCH ROLLER (F)		
66	2B		D14-0274-08	ROLLER (HEAD PLATE)		
67	2B		D15-0275-08	PULLEY (IDLE)		
68	3B		D16-0183-08	BELT		
70	2B		E31-4738-08	WIRE (HEAD)		
74	2A		G01-2217-08	TENSION SPRING		
75	1B		G01-2212-08	TENSION SPRING		
76	2A		G01-2213-08	TENSION SPRING		
77	1B		G01-2214-08	TENSION SPRING		
78	3A		G01-2215-08	TENSION SPRING		
79	2A		G01-2216-08	TENSION SPRING		
81	2B		G01-2221-08	COMPRESSION SPRING		
82	2B		G01-2222-08	TORSION SPRING		
83	2B		G01-2223-08	TORSION SPRING		
84	2B		G01-2224-08	TORSION SPRING		
85	1A		G01-2225-08	TORSION SPRING		
86	1B		G01-2226-08	TENSION SPRING		
87	2A		G01-2227-08	TENSION SPRING		
88	2A		G01-2218-08	TENSION SPRING		
89	2A		G01-2219-08	TENSION SPRING		
94	3B		G01-2220-08	TENSION SPRING		
97	3A		G02-0472-08	FLAT SPRING		
98	2A		G02-0473-08	FLAT SPRING		
99	1A		G09-0093-08	SPRING		
100	2B		G09-0094-08	SPRING		
101	2B		G09-0095-08	SPRING (PR)		
102	3A		G10-0129-08	FELT		
103	2A		G10-0130-08	FELT (FRICTION)		

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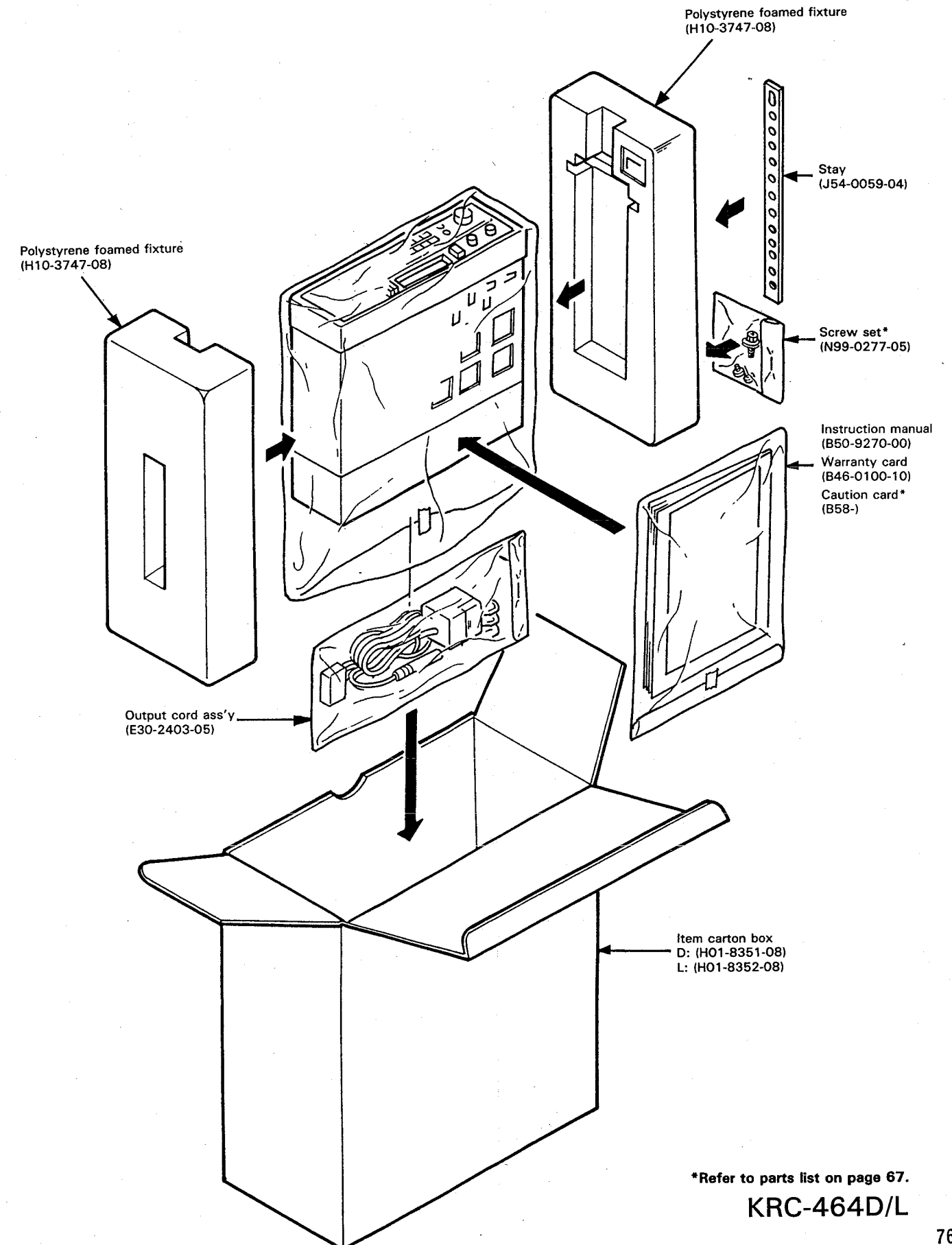
Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
104	1A		G11-1308-08	CUSHION		
105	3A		G16-0187-08	SHEET		
110	1B		J19-2987-18	HOLDER (ACTION PLATE)		
111	1A		J19-2990-08	HOLDER (CASSETTE CASE)		
112	2B		J19-2991-08	BRACKET		
113	3A		J21-5252-08	MOUNTING HARDWARE (FLYWHEEL)		
114	2B		J25-5896-08	PRINTED WIRING BOARD (FPC)		
115	1A		J25-5895-08	PRINTED WIRING BOARD		
116	3A		J30-0246-08	SPACER		
117	2B		J90-0609-08	TAPE GUIDE		
118	1A		J90-0610-08	CASSETTE GUIDE		
123	1A		N69-2519-08	SCREW		
124	2A		N09-1999-08	SCREW (M2.6X3) MOTOR		
125	2B		N09-2000-08	SCREW (M2.6X4.5)		
126	2B		N09-2501-08	SCREW (M2X2)		
127	1A, 3A		N09-2502-08	SCREW (M2X3)		
128	1A, 2B		N09-2503-08	SCREW (M2X3)		
129	2B		N09-2505-08	SCREW		
130	2B		N09-2506-08	SCREW		
131	2B		N09-2507-08	SCREW		
132	2B		N09-2508-08	SCREW (M2X5)		
133	2B		N19-1133-08	FLAT WASHER (Ø2.1)		
137	2A, 3A		N19-1134-08	FLAT WASHER (Ø1.25)		
138	1B		N19-1135-08	FLAT WASHER (Ø2.1)		
139	1B		N19-1136-08	FLAT WASHER (Ø3.1)		
140	1B		N19-1137-08	FLAT WASHER (Ø1.7)		
141	3A		N19-1138-08	FLAT WASHER		
142	2B, 3B		N19-1144-08	FLAT WASHER (Ø2.1)		
143	1B, 2B		N19-1145-08	FLAT WASHER (Ø1.9)		
S1, 2	1A, 2B		N31-3007-08	SLIDE SWITCH		
S3	2B		S46-1112-08	LEAF SWITCH		
150	2B		T31-0053-08	PLAYBACK HEAD (WIRE)		
152	2B		T94-0207-08	SOLENOID COIL		
M1	2A		T42-0514-08	MOTOR ASSY		

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PACKING



*Refer to parts list on page 67.

KRC-464D/L

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SPECIFICATIONS

FM Tuner Section

Frequency Range	87.5~108.0 MHz
Usable Sensitivity (DIN)	1.6 μ V/75 ohms
Stereo Sensitivity (S/N = 46 dB)	2.8 μ V/75 ohms
Frequency Response (± 4.5 dB)	30~15,000 Hz
Signal to Noise Ratio (IEC-A)	68 dB
Selectivity (DIN)	65 dB
Stereo Separation (1 kHz)	40 dB
19 kHz Carrier Leakage	50 dB

MW Tuner Section

MW Frequency Range	531~1,611 kHz
MW Usable Sensitivity	30 μ V

LW Tuner Section (KRC-464L only)

LW Frequency Range	153~281 kHz
LW Usable Sensitivity	60 μ V

Cassette Deck Section

Tape Speed	4.76 cm/s
Wow and Flutter (WRMS)	0.12% (WRMS)
(DIN)	0.2% (W-PEAK)
Fast Winding Time (C-60)	110 sec
Frequency Response (120 μ s)	40 Hz~14 kHz (+4 dB, -6 dB)
(70 μ s)	40 Hz~16 kHz (+4 dB, -6 dB)
Stereo Separation (1 kHz)	37 dB
Signal to Noise Ratio (IEC-A)	52 dB

Audio Section

Maximum Output Power (1 kHz, 4 ohms)	20 W $\times$ 2
Rated Output Power (10% THD, 1 kHz, 4 ohms)	15 W $\times$ 2
(1% THD, 1 kHz, 4 ohms)	10 W $\times$ 2

General

Operating Voltage (GND)	14.4 V (11~16 V)
Current Consumption	4.5 A at Rated Power
Dimensions (W $\times$ H $\times$ D)	188 $\times$ 58 $\times$ 177 mm
Body Size (W $\times$ H $\times$ D)	180 $\times$ 52 $\times$ 159 mm
Weight	2.0 kg

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige, Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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